

REPORT NUMBER: TO5-MGA-2001-001

**RIGID POLE SIDE IMPACT TEST
Task Order T0004 / RFP 0005
2000 NISSAN MAXIMA WITHOUT SIDE AIRBAG**

**ES-2 DRIVER POSITION
HYBRID III 3 YR. OLD LEFT REAR
HYBRID III 6 YR. OLD RIGHT REAR**

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June 27, 2001

FINAL REPORT SUBMITTED: July 18, 2003

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
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SECTION 1
PURPOSE AND TEST PROCEDURE

This Side Impact test is conducted as part of Contract No. DTRS57-98-D-00041, Task Order T0004 / RFP 0005, sponsored by the U.S. Department of Transportation, Volpe National Transportation System Center. The purpose of this test is to evaluate the responses of the ES-2 and SID/HIII dummies in a 2000 Nissan Maxima, without side airbags, when subjected to a rigid pole side impact.

MGA does not endorse or certify products. The manufacturer's name appears solely for identification purposes.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A rigid pole side impact test was performed on a model year 2000 Nissan Maxima 4 door without side airbags. The subject vehicle was towed into a rigid pole at a velocity of 28.3 km/h. The specified impact velocity range is from 27.2 to 28.8 km/h. The test vehicle was positioned 90° to the line of forward motion. The weight of the vehicle as tested was 1690.2 kg. The test was conducted at MGA Research Corporation in Burlington, Wisconsin, on June 27, 2001. Pre- and post-test photographs of the test vehicle and the dummies are included in Appendix A.

One ES-2 side impact dummy was placed in the left front designated seating position according to instructions specified in the FMVSS 201P Laboratory Test Procedure which is dated April 21, 2000 and Evaluation of Eurosid-1 Positioning Procedure Appendix A dated February 5, 1997. A 3 year old Hybrid III dummy was placed in a Cosco Triad child restraint in the left rear outboard seating position. The Cosco Triad child restraint was fastened to the vehicle with the combination lap and shoulder belt and the child seat tether strap. A 6 year old Hybrid III dummy was placed in a Century Next Step Booster seat in the right rear outboard seating position. The dummy was not harnessed to the booster and the tether strap was not used. The vehicle lap and shoulder belt were used. The side impact event was documented by ten high speed cameras. Camera locations and other pertinent camera information can be found in this report.

Appendix B contains the vehicle and dummy response data traces. A summary of the side impact dummy (ES-2) configuration and performance verification test data is shown in Appendix C. Dummy and vehicle calibration data can be found in Appendix D of this report.

Appendix E contains a copy of the ES-2 dummy positioning procedure used and Appendix F contains the ES-2 and child peak responses.

The following table summarizes the results of the Left Side Impact test:

		Left Front
1) Head Performance Criteria		
< 1000	T1 (msec)	58.6
	T2 (msec)	59.6
	HPC *	4728
2) Thorax Performance Criteria		
2.1) Chest Deflection < 42 mm	Upper Rib Deflection	45.1
	Mid Rib Deflection	42.7
	Lower Rib Deflection	40.0
2.2) Viscous Criteria < 1.0 (m/sec)	Upper Rib	0.7
	Mid Rib	0.6
	Lower Rib	0.5
3) Abdominal Protection Criterion		
Sum < 2500 N	Front Abdominal Force	204.9
	Mid Abdominal Force	708.9
	Rear Abdominal Force	880.5
	Sum of Abdominal Force	1757.7
4) Pelvis Performance Criterion		
< 6000 N	Pubic Symphysis Force	1930.1

HIC		Left Front
	T1 (msec)	58.6
	T2 (msec)	59.6
	T2 - T1 (msec)	1.0
	HIC *	4728

* The driver head Y acceleration data was clipped at 501.5631 G's. (Values above that level were recorded as 501.5631 G's)

Fir Filtered	Left Front
Upper Rib Y (g's)	62.3
Mid Rib Y (g's)	113.3
Lower Rib Y (g's)	128.9
Lower Spine Y (g's)	54.5
Pelvis Y (g's)	50.6
TTI (g's)	92

Contacts	Left Front
Head (msec)	58.0
Arm (msec)	22.8
Rib (msec)	35.1
Pelvis (msec)	30.6

TEST NOTES

The driver head y acceleration was clipped at 501.63 g's, due to the setup of the data acquisition system.

SECTION 3
SIDE IMPACT DUMMY (ES-2) AND VEHICLE TEST DATA

DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

TEST VEHICLE INFORMATION

Make	Nissan
Model	Maxima
Body Style	4 door
VIN	JN1CA31DXYT754145
Color	Painted Orange
Odometer Reading	24,993 miles
Transmission	automatic
Final Drive	front
Number of Cylinders	6
Engine Displacement	3.0 liters
Engine Placement	lateral

TEST VEHICLE OPTIONS

Front Airbags	yes
Side Airbags	no
Power Windows	yes
Power Steering	yes
Power Door	yes
Tilt Wheel	yes
Air Conditioning	yes
Power Brakes	yes
Anti-lock Brakes	no
AM/FM/Cassette	yes
Cruise Control	yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Nissan Motor Co., Ltd.	GVWR (kg)	1965
Date of Manufacture	01/00	GAWR Front (kg)	1073
		GAWR Rear (kg)	902

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	230	210
Cold Pressure (kPa)	230	210
Recommend Tire Size	P215/55R16	P215/55R16
Tire Size on Vehicle	P215/55R16	P215/55R16
Tire Manufacturer	Toyo	Toyo

Measured Parameter	Front	Rear	Third	Total
Type of Seats	bucket	bench		
Number of Occupants	2	3		5
Capacity Wt. (VCW) (kg)				400
Cargo Weight (RCLW) (kg)				60

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front	Rear	Total	Front	Rear	Total
Left	kg	458.1	282.6		481.3	362.9	
Right	kg	460.9	266.7		501.7	344.3	
Ratio	%	62.6	37.4		58.2	41.8	
Totals	kg	919.0	549.3	1468.3	983.0	707.2	1690.2

TARGET TEST WEIGHT

Measured Parameter	Units	Value
Vehicle Target Weight (TVTW)*	kg	1690

* Target weight was set to match previous tests with the 2000 Nissan Maxima

TEST VEHICLE ATTITUDES

	Units	As Delivered	Fully Loaded	Ready for Test
Right Door Sill Angle	deg	0.1 BD	0.2 BD	0.7 BD
Left Door Sill Angle	deg	0.0	0.3 BD	0.6 BD
Front Bumper Angle	deg	0.1 RD	0.3 LD	0.2 RD
Rear Bumper Angle	deg	0.0	0.2 LD	0.4 RD

ND = Nose Down, BD = Back Down, LD = Left Down, RD = Right Down

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel Base	mm	2755
Total Vehicle Length at Left Side	mm	4171
Total Vehicle Length at Centerline	mm	4791
Total Vehicle Length at Right Side	mm	4171
Weight of Ballast in Cargo Area	kg	0
Amount of Water in Fuel Tank	liters	7.6

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Actual Impact Point	mm	7 mm rear

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

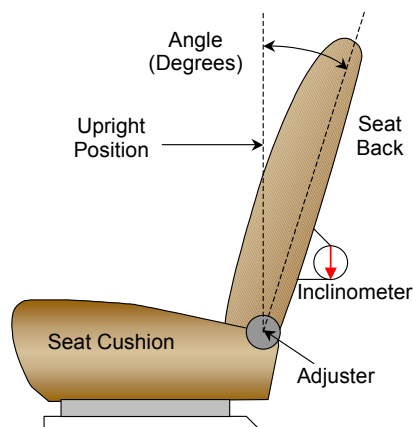
Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

NORMAL DESIGN RIDING POSITION

Driver seat back angle: 11.5 deg. on headrest post
(adjusted forward 1.9 deg. to
achieve 50 mm head
clearance)

Passenger seat back angle: non adjustable



FRONT SEAT ASSEMBLY

SEAT FORE/AFT POSITIONS

The driver's seat is electronically operated and the rear passenger seat has no adjustments. The fore/aft is set to the middle position for the driver's seat.

Driver seat fore/aft total travel: 230 mm

Rear passenger seat fore/aft total travel: non adjustable

Driver seat fore/aft position: 115 mm rearward

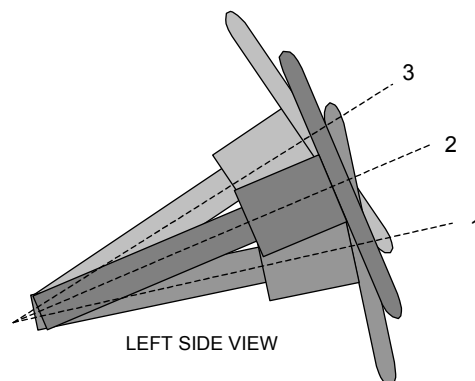
Rear passenger seat fore/aft position: non adjustable

SEAT BELT UPPER ANCHORAGE

The test vehicle "D" ring anchorage for the driver's seat position was placed in the full up position.

STEERING COLUMN ADJUSTMENT

Lowermost, position 1:	20.8°
Geometric center, position 2:	22.5°
Uppermost, position 3:	24.3°



STEERING COLUMN ASSEMBLY

**DATA SHEET NO. 2
POST TEST OBSERVATIONS**

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Left Front	Left Rear	Right Rear
Dummy Type	ES-2	HIII 3 yr. old	HIII 6 yr. old
Head Contact	Pole	Child seat	Left hand to right rear child seat
Upper Torso Contact	Window sill	Left foot to door trim panel	
Lower Torso Contact	Armrest, door trim panel		
Left Knee Contact	Door trim panel		
Right Knee Contact	Left knee		

POST TEST DOOR OPENING

Description	Left Front	Left Rear
Left Side Door Opening	Remained closed	Remained closed
Right Side Door Opening	Remained closed	Remained closed

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	No failures
Sill Separation	None
Windshield Damage	Windshield cracked
Window Damage	Struck side windows removed pre test
Other Notable Effects	None

AIRBAG DEPLOYMENT

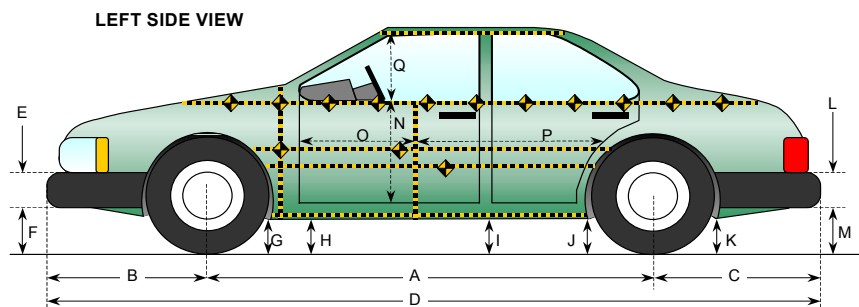
	Driver	Left Front	Left Rear
Front	No	No	
Side			
Curtain			

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 3
VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



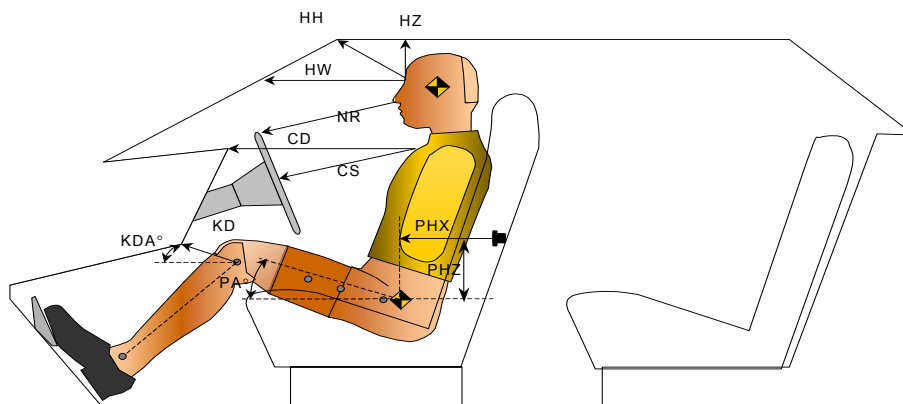
All Measurements in mm

Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2755	2601	-154
B	Front Axle to FSOV	957	932	-25
C	Rear Axle to RSOV	1079	1112	33
D	Total Length at Centerline	4791	4645	-146
E	Front Bumper Thickness	285	285	0
F	Front Bumper Bottom to Ground	256	313	57
G	Sill Height at Front Wheel Well	190	211	21
H	Sill Height at Front Door Leading Edge	205	219	14
I	Sill Height at "B" Pillar	212	237	25
J1	Sill Height at Rear Wheel Well	200	247	47
J2	Pinch Weld Height at Rear Wheel Well	205	223	18
K	Sill Height Aft of Rear Wheel Well	261	302	41
L	Rear Bumper Thickness	295	295	0
M	Rear Bumper Bottom to Ground	337	365	28
N	Sill Height to Window Bottom Sill	656	630	26
O	Front Door Leading Edge to Impact CL	974	855	-119
P	Rear Door Trailing Edge to Impact CL	1004	786	-218
Q	Front Window Opening	452	415	-37
R	Right Side Length	4171	4188	17
S	Left Side Length	4171	3970	-201
T	Vehicle Width at "B" Post	1768	1423	345

DATA SHEET NO. 4
ES-2 LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



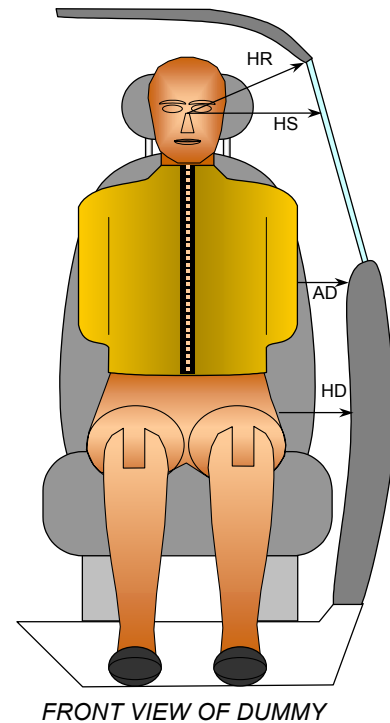
Driver Code	Measurement Description	Left Front	
		Length(mm)	Angle(°)
HH	Head to Header	292	
HW	Head to Windshield	534	
HZ	Head to Roof	135	
NR	Nose to Rim	430	
CD	Chest to Dash	560	
CS	Chest to Steering Wheel	348	
KDL	Left Knee to Dash	240	0.0
KDR	Right Knee to Dash	232	0.0
PA	Pelvic Angle (Longitudinal)		22.4
PA	Pelvic Angle (Lateral)		0.0
SA	Spine Angle (Longitudinal)		23.4
SA	Spine Angle (Lateral)		0.2
PHX	H-Point to Striker (X-Axis)	218	
PHZ	H-Point to Striker (Z-Axis)	148	

DATA SHEET NO. 5
ES-2 LATERAL CLEARANCE DIMENSIONS / CHILD DUMMY MEASUREMENTS

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

Code	Measurement Description	Units	Left Front
HR	Head to Side Header	mm	172
HS	Head to Side Window	mm	308
AD	Arm to Door	mm	82
HD	H-Point to Door	mm	140



CHILD DUMMY MEASUREMENTS

Measurement Description	Units	Left Rear	Right Rear
Head CG to Striker X	mm	76	141
Head CG to Striker Y	mm	391	409
Head CG to Striker Z	mm	184	207
Chest Center to Door	mm	366	461
Chest C/L to Chest C/L	mm	692	

**DATA SHEET NO. 6
DUMMY POSITIONING**

Test Vehicle: 2000/Nissan/Maxima/4 door

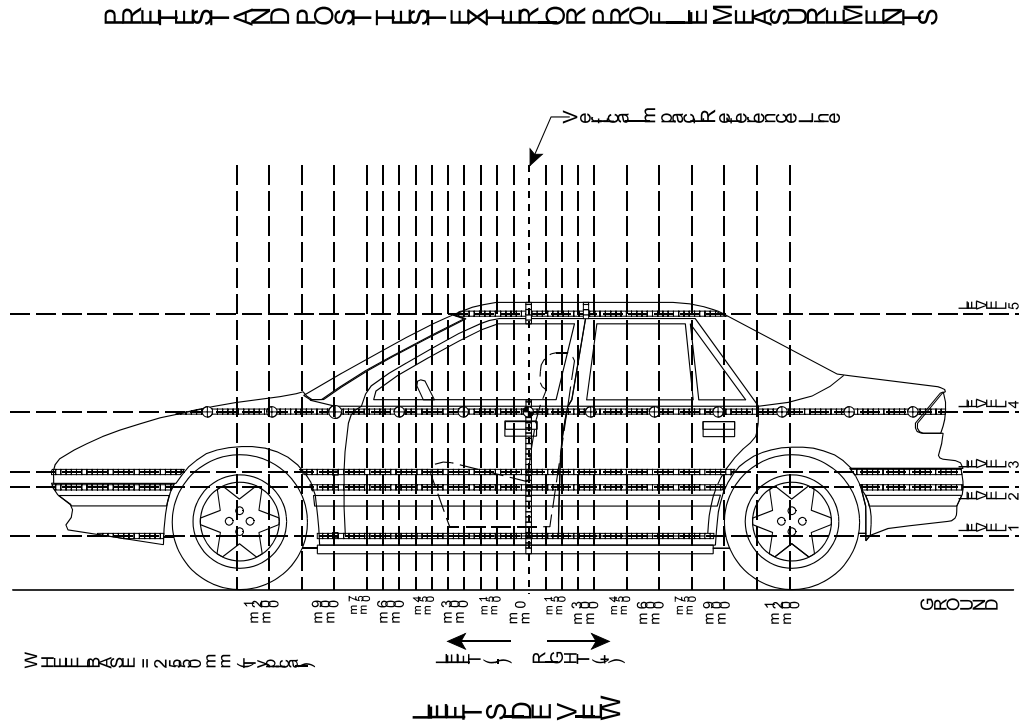
Test Date: June 27, 2001

	Left Front		
	H-Point Machine	Dummy H Point	Dummy H Point after seat back adjustment
HP to Floor Z (mm)	176	176	176
HP to Hinge X (mm)	818	811	811
HP to Sill Y (mm)	223	230	230
HP to Striker X (mm)	362	358	359
HP to Dash X (mm)	573	568	569
HP to Header Z (mm)	789	785	785
H-POINT MACHINE (deg)			
Left Knee	128		
Right Knee	126		
Left Foot	104		
Right Foot	136		
Left Leg (mm)	192		
Right Leg (mm)	122		
Hip Angle	96		
Back Angle	23		

DATA SHEET NO. 7 **VEHICLE SIDE MEASUREMENTS**

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



Measurements are taken with vehicle in the as tested condition.
 Measurements along the vertical 800 mm.

Level	Measurement Description	Units	Height Above Ground
5	Window	mm	1364
4	Window Sill	mm	912
3	Mid Door	mm	599
2	Occupant H-Point	mm	495
1	Sill Top	mm	288

DATA SHEET NO. 8
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-1950		431	431	515			467	468	547			36	37	32	
-1800		377	391	484			429	447	528			52	56	44	
-1650				459					515					56	
-1500				444					511					67	
-1350				438					513					75	
-1200				432					517					85	
-1050	409	373	372	425		505	474	473	521		96	101	101	96	
-900	421	376	372	425		534	494	488	527		113	118	116	102	
-825	422	375	371	426		563	515	511	537		141	140	140	111	
-750	423	375	371	425		583	536	534	557		160	161	163	132	
-675	423	375	370	421		605	558	557	581		182	183	187	160	
-600	423	374	370	422		628	581	579	617		205	207	209	195	
-525	423	374	369	422		654	611	627	659		231	237	258	237	
-450	423	374	369	421		682	654	675	701		259	280	306	280	
-375	423	374	369	421		714	698	722	744		291	324	353	323	
-300	424	373	368	421		755	744	773	786		331	371	405	365	
-225	424	373	368	421	643	803	793	820	833	863	379	420	452	412	220
-150	424	373	368	420	640	862	860	871	878	919	438	487	503	458	279
-75	424	372	367	420	639	902	907	912	922	962	478	535	545	502	323
0	425	372	367	419	637	914	912	926	932	967	489	540	559	513	330
75	425	372	368	417	637	894	886	893	898	967	469	514	525	481	330
150	425	373	368	415	638	846	809	817	855	967	421	436	449	440	329
300	425	373	368	417	638	750	743	739	797	968	325	370	371	380	330
450	425	374	368	418	641	674	675	686	747	890	249	301	318	329	249
600	425	375	370	420	642	607	606	627	695	842	182	231	257	275	200
750	424	377	371	420	648	545	539	563	644	797	121	162	192	224	149
900	420	375	372	426	660	486	466	497	592	780	66	91	125	166	120
1050			357	426				462	547				105	121	
1200				430					524					94	
1350				437					517					80	
1500				448					513					65	
1650		380	393	458			428	447	516			48	54	58	
1800		410	406	472			449	452	521			39	46	49	
1950		422	421	490			453	456	528			31	35	38	
2100		445	441	512			464	466	540			19	25	28	

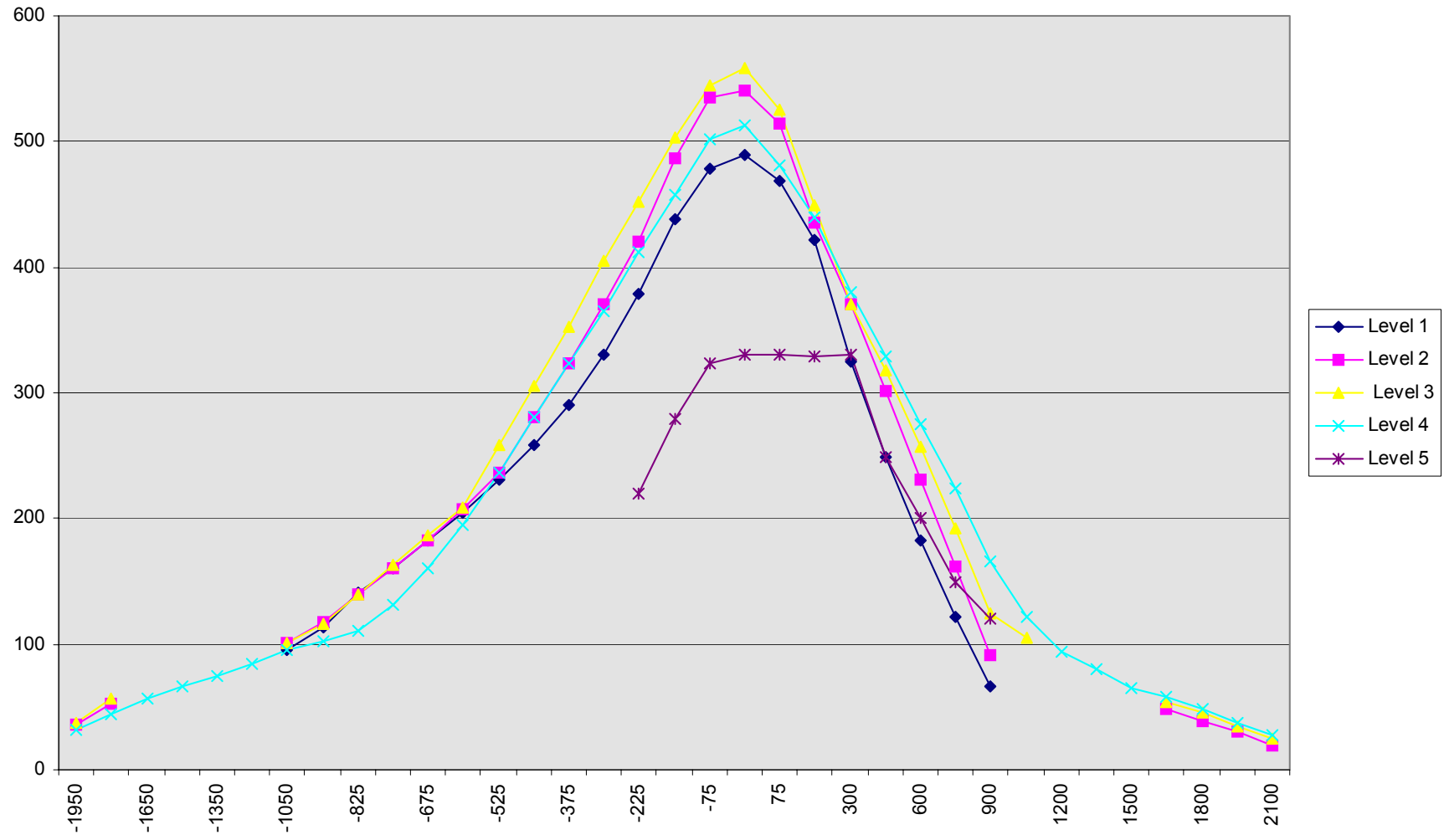
Reference plane is parallel to test vehicle longitudinal centerline
Given dimensions = Reference plane to car body

DATA SHEET NO. 8...(continued)
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

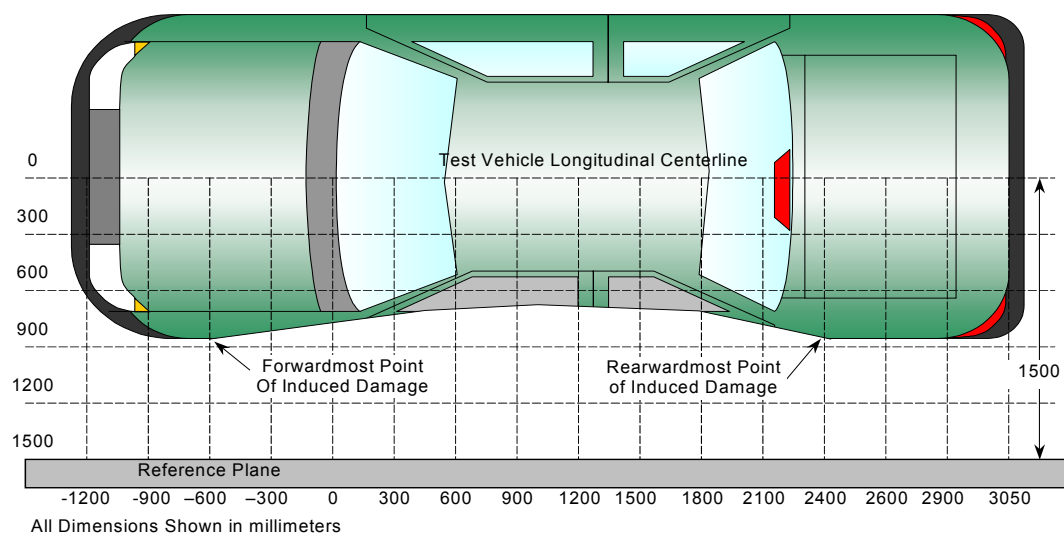
18



DATA SHEET NO. 9 **VEHICLE DAMAGE PROFILE DISTANCES**

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



TOP VIEW

Damage Profile Distances

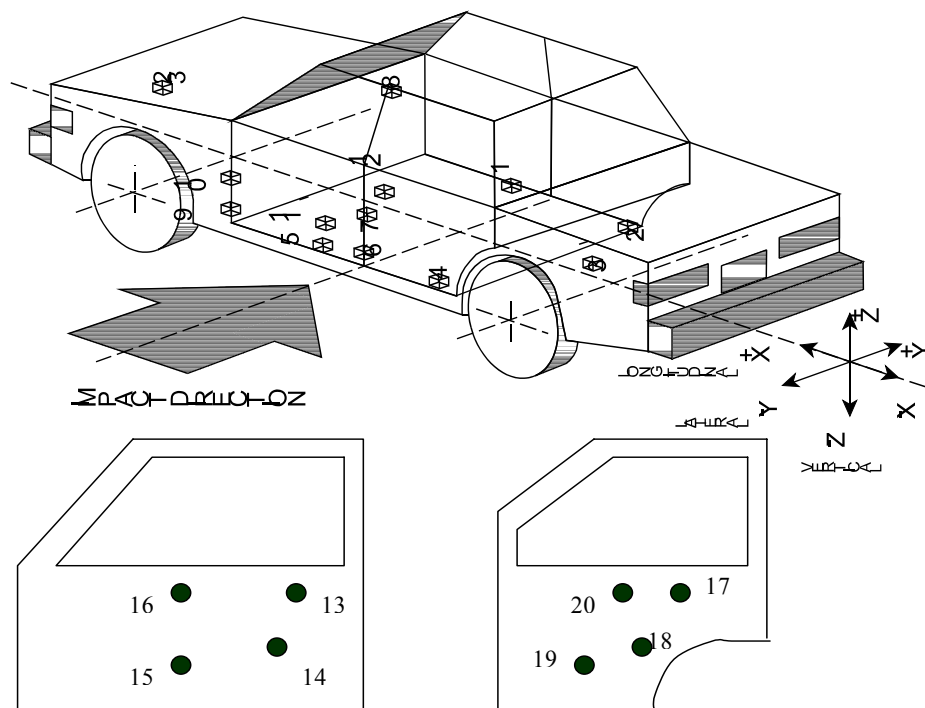
DPD	Distance from Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	2100 mm	4	512	540	28
2	1312 mm	4	436	518	82
3	525 mm	3	370	656	286
4	-340 mm	3	368	748	380
5	-1186 mm	4	432	517	85
6	-1950 mm	4	515	547	32

Reference plane is parallel to test vehicle longitudinal centerline
 Given dimensions = Reference plane to car body

DATA SHEET NO. 10
VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



No.	Location
1	Right Side Sill at Front Seat
2	Right Side Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Side Sill at Rear Door
5	Left Side Sill at Front Door
6	Left Lower B Post
7	Left Mid B Post
8	Left Upper B Post
9	Left Lower A Post
10	Left Mid A Post
11	Driver Seat Track
12	Vehicle CG

No.	Location
13	Left Front Door @ Mid Rib
14	Left Front Door @ Pelvis
15	Left Front Door @ Knee
16	Left Front Door @ Arm
17	Left Rear Door @ Mid Rib
18	Left Rear Door @ Pelvis
19	Left Rear Door @ Knee
20	Left Rear Door @ Arm
21	Left Driver Seat Frame
22	Right Driver Seat Frame
23	Lower Center Radiator Support

DATA SHEET NO. 10...(continued)
VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

Loc. No.	Accelerometer Location	Long. (X) Maximums (g's) (CFC 60)		Lat.. (Y) Maximums (g's) (CFC 60)		Vert. (Z) Maximums (g's) (CFC 60)		Resultant (g's) (CFC 60)
		Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Max.
1	Right Side Sill at Front Seat	1.6	2.3	9.0	0.0	1.8	2.4	9.4
2	Right Side Sill at Rear Seat	1.9	1.9	8.8	0.0	2.9	2.5	9.0
3	Rear Floorpan Above Axle	3.4	1.5	8.3	0.0	3.4	5.0	8.5
4	Left Side Sill at Rear Door			13.5	2.9			
5	Left Side Sill at Front Door			36.4	18.1			
6	Left Lower B Post			71.3	9.4			
7	Left Mid B Post			64.1	3.0			
8	Left Upper B Post			63.1	13.4			
9	Left Lower A Post			13.3	2.3			
10	Left Mid A Post			9.2	2.2			
11	Driver Left Seat Track			48.1	13.5			
12	Vehicle CG	7.8	2.6	44.8	19.8	19.1	20.3	45.2
13	Left Front Door @ Mid Rib			120.2	9.1			
14	Left Front Door @ Pelvis			117.9	52.2			
15	Left Front Door @ Knee			51.3	28.4			
16	Left Front Door @ Arm			134.6	43.9			
17	Left Rear Door @ Mid Rib			50.2	15.4			
18	Left Rear Door @ Pelvis			71.9	56.4			
19	Left Rear Door @ Knee			70.0	43.5			
20	Left Rear Door @ Arm			84.8	47.1			
21	Left Driver Seat Frame			73.6	28.6			
22	Right Driver Seat Frame			68.9	19.8			
23	Lower Center Radiator Support	2.1	3.4	8.5	4.3	4.4	3.5	8.8

DATA SHEET NO. 10...(continued)
VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001

VEHICLE ACCELEROMETER COORDINATES

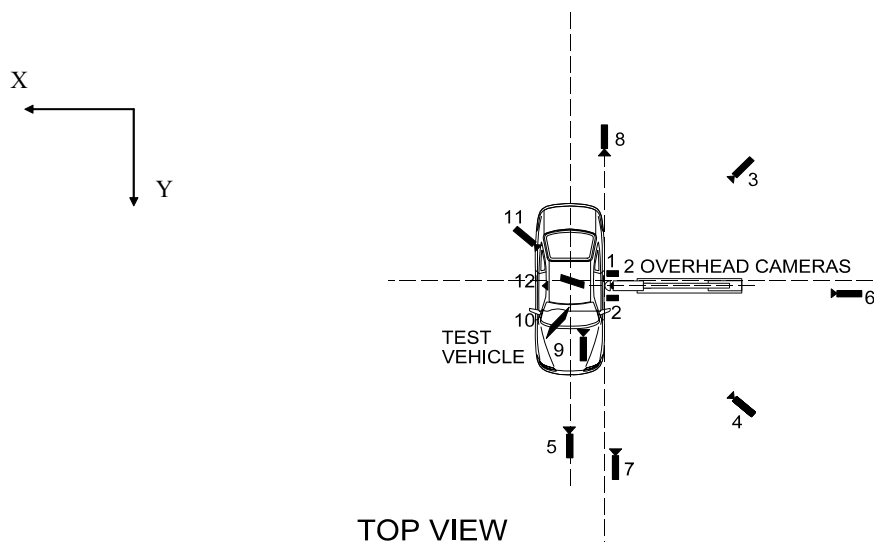
Loc. No.	Description	Coordinates (mm)*		
		X	Y	Z
1	Right Side Sill at Front Seat	2944	705	210
2	Right Side Sill at Rear Seat	1929	705	216
3	Rear Floorpan Above Axle	1050	0	480
4	Left Side Sill at Rear Door	1616	-708	218
5	Left Side Sill at Front Door	2760	-705	214
6	Left Lower B Post	2180	-700	400
7	Left Mid B Post	2182	-700	892
8	Left Upper B Post	2100	-496	1345
9	Left Lower A Post	3233	-685	303
10	Left Mid A Post	3310	-790	833
11	Driver Left Seat Track	2376	-540	352
12	Vehicle CG	2706	0	316
13	Left Front Door @ Mid Rib	2387	-767	810
14	Left Front Door @ Pelvis	2429	-760	570
15	Left Front Door @ Knee	2845	-746	658
16	Left Front Door @ Arm	2649	-762	732
17	Left Rear Door @ Mid Rib	1415	-740	860
18	Left Rear Door @ Pelvis	1585	-744	565
19	Left Rear Door @ Knee	1804	-753	740
20	Left Rear Door @ Arm	1991	-730	641
21	Left Driver Seat Frame	2227	-504	684
22	Right Driver Seat Frame	2227	-206	686
23	Lower Center Radiator Support	4560	25	278

Reference Points X - Rear Bumper (+ Forward)
 Y - Vehicle Centerline (+ to right)
 Z - Ground Level (+ up)

DATA SHEET NO. 11
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2000/Nissan/Maxima/4 door

Test Date: June 27, 2001



No.	Camera View	Location (mm)			Lens (mm)	Film Speed (fps)
		X	Y	Z		
1	Overhead Overall	-840	0	5000	8	1015
2	Overhead Close-up	0	0	5000	13	1000
3	Left Side 45° Rearward Pole View	-1950	-6800	1234	50	1010
4	Left Side 45° Forward Pole View	-1800	6220	1365	50	1000
5	Real Time				13	32
6	Left Side Rear Pole View	-3000	0	2570	8	1020
7	Front Ground Level Vehicle/Pole Impact	2800	9000	1520	25	1005
8	Rear Ground Level Vehicle/Pole Impact	3900	-8700	1320	25	1015
9	Test Vehicle Onboard Hood				7.5	501
10	Test Vehicle Onboard Driver Hip				13	508
11	Test Vehicle Onboard Driver Head Contact				13	512
12	Test Vehicle Onboard Child Dummies				13	513

Reference Points X - + Forward of Impact
 Y - + Right of Impact
 Z - + Up from Ground

**APPENDIX A
PHOTOGRAPHS**

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Photo No. A-1 - Pre-Test Front View of Test Vehicle



Photo No. A-2 - Post-Test Front View of Test Vehicle



Photo No. A-3 - Pre-Test Rear View of Test Vehicle



Photo No. A-4 - Post-Test Rear View of Test Vehicle

A-5

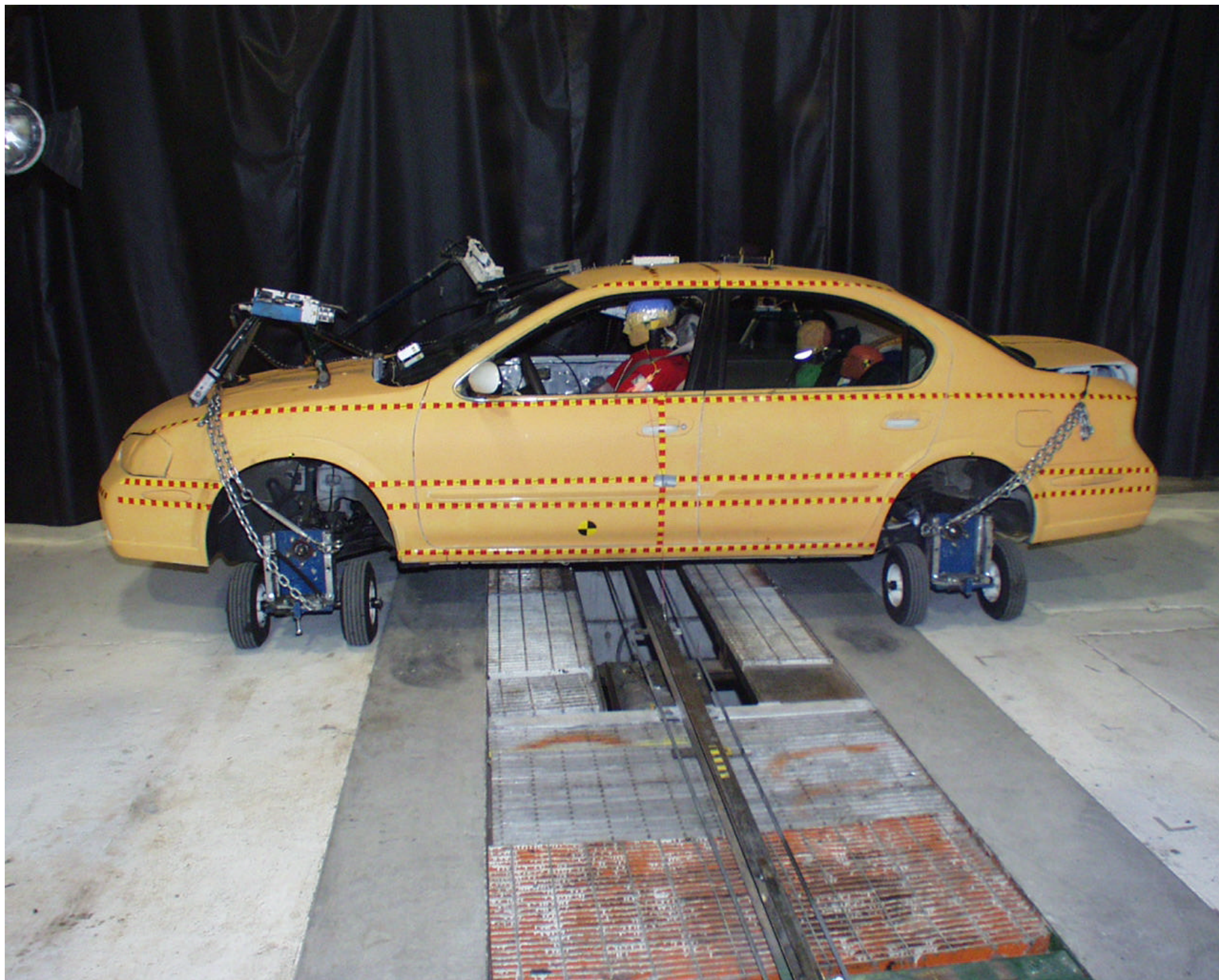


Photo No. A-5 - Pre-Test Left Side View of Test Vehicle

A-6



Photo No. A-6 - Post-Test Left Side View of Test Vehicle



Photo No. A-7 - Pre-Test Left Front View



Photo No. A-8 - Post-Test Left Front View

A-9

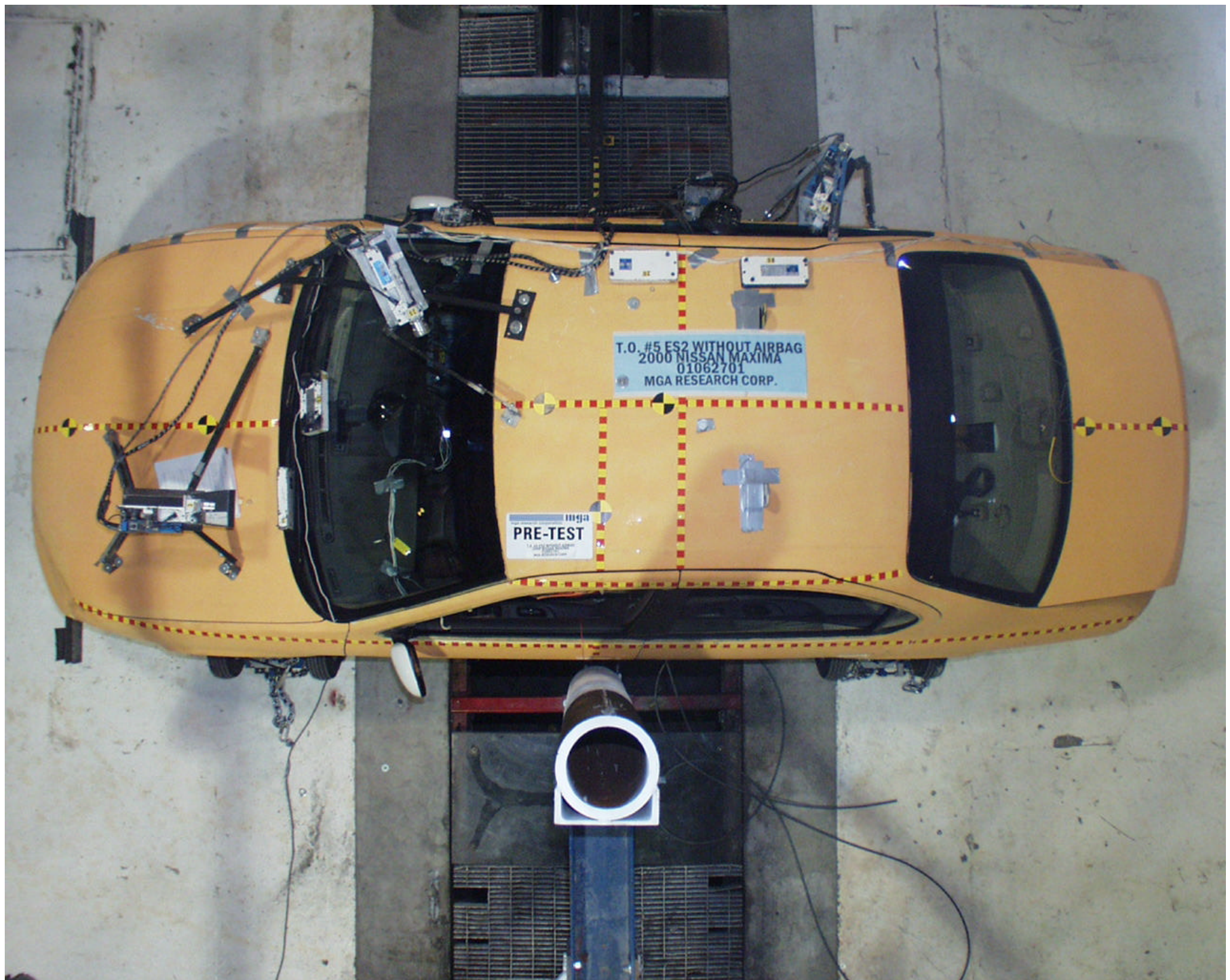


Photo No. A-9 - Pre-Test Overhead View

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Photo No. A-10 - Post-Test Overhead View



Photo No. A-11 - Pre-Test Left Rear View

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Photo No. A-12 - Post- Test Left Rear View

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Photo No. A-13 - Pre-Test Driver Dummy Right Side View



Photo No. A-14 - Post-Test Driver Dummy Right Side View



Photo No. A-15 - Pre-Test Driver Dummy Left Side View



Photo No. A-16 - Post-Test Driver Dummy Left Side View



Photo No. A-17 - Pre-Test Driver Dummy Left Side View (Door Open)



Photo No. A-18 - Pre-Test Driver Dummy Shoulder and Door Top View



Photo No. A-19 - Post-Test Driver Dummy Shoulder and Door Top View

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Photo No. A-20 - Pre-Test Right Rear Passenger Dummy Right Side View



Photo No. A-21 - Post-Test Right Rear Passenger Dummy Right Side View

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Photo No. A-22 - Pre-Test Right Rear Passenger Dummy Left Side View



Photo No. A-23 - Post-Test Right Rear Passenger Dummy Left Side View



Photo No. A-24 - Pre-Test Rear Passenger Dummies Left Side View (Door Open)



Photo No. A-25 - Pre-Test Rear Passenger Dummies Right Side View (Door Open)



Photo No. A-26 - Pre-Test Left Rear Passenger Dummy Right Side View



Photo No. A-27 - Post-Test Left Rear Passenger Dummy Right Side View

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Photo No. A-28 - Pre-Test Driver Windshield View



Photo No. A-29 - Post-Test Driver Windshield View



Photo No. A-30 - Pre-Test Left Front Impact Point on Vehicle



Photo No. A-31 - Post-Test Left Front Impact Point on Vehicle



Photo No. A-32 - Impact

VEHICLE CAPACITY WEIGHT	882lbs	SEATING CAPACITY	FRONT AVANT 2	TOTAL TOTAL	SPARE TIRE ROUE DE SECOURS	psi (kPa)
POIDS UTILE DU VEHICULE	400kg	NOMBRE DE PLACES	REAR ARRIERE 3	5	T125/70D16	60 (420)
RECOMMENDED COLD TIRE INFLATION PRESSURE PRESSION DE GONFLAGE RECOMMANDEE DES PNEUS FROIDS.					DO NOT USE IN EXCESS OF 50MPH. 80km/h SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION. UTILISATION A UNE VITESSE MAX 50MPH. 80km/h POUR LES DETAILS SE REFERER AU MANUEL DU CONDUCTEUR.	
TIRE SIZE DIMENSIONS	FRONT psi AVANT (kPa)		REAR psi ARRIERE (kPa)			
P215/55R16 91H	33 (230)		30 (210)			

SD

2Y400

S D

2Y400

Photo No. A-33 - Tire Placard

MFD.BY NISSAN MOTOR CO.,LTD

DATE 01/00

GVWR/PNBV 4333 LBS.

GAWR/PNBE FR. 2365 LBS. RR. 1988 LBS.

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL
MOTOR VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION
STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE
SHOWN ABOVE.

JN1CA31DXYT754145

PASSENGER CAR/VOITURE DE TOURISME



JN1CA31DXYT754145

APPENDIX B
VEHICLE AND ES-2 RESPONSE DATA TRACES

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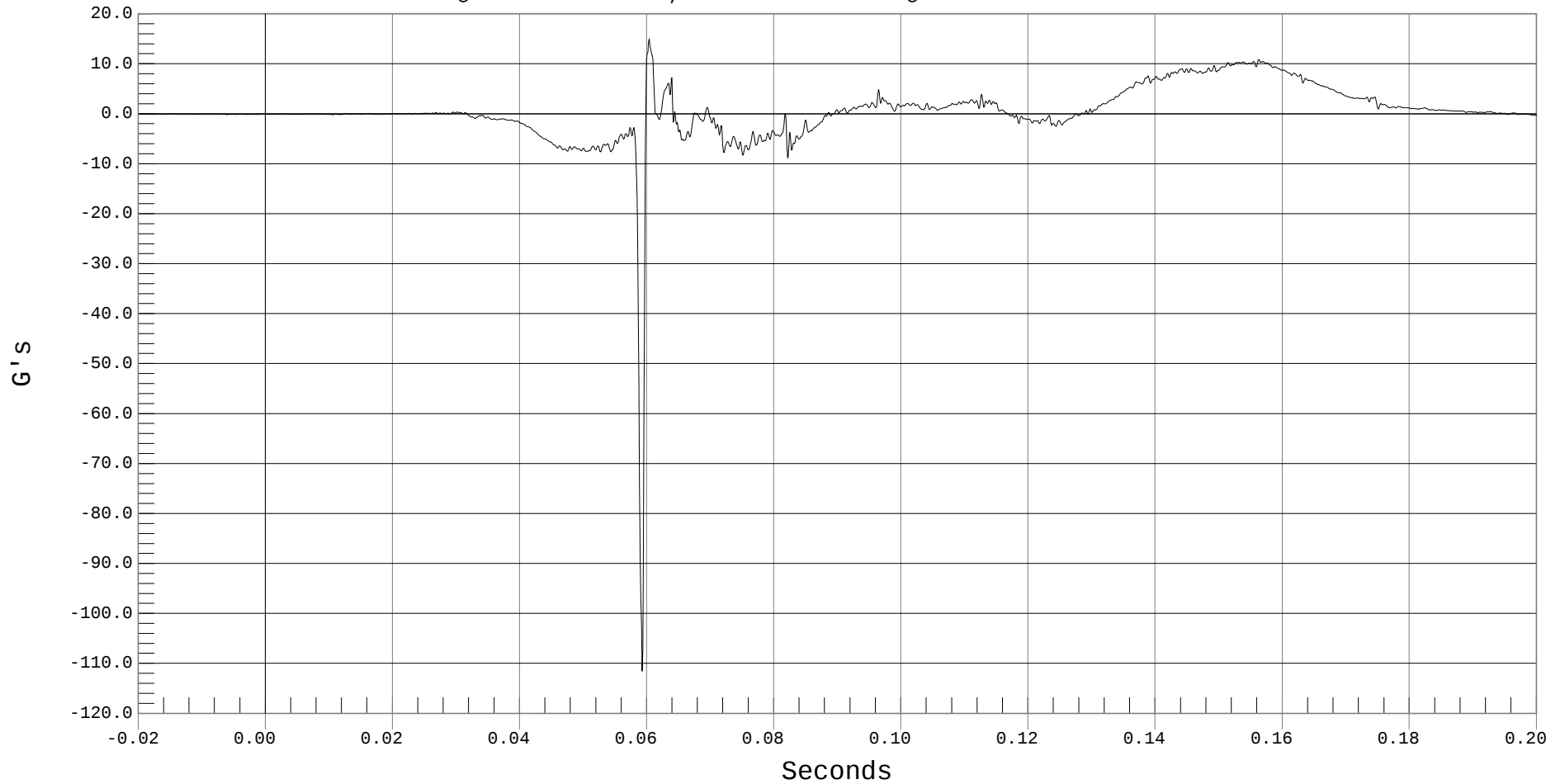
DRIVER HEAD X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER HEAD X, B01071AT.A01

Ymin = -111.55 G's @ 0.0592 Seconds, Ymax = 15 G's @ 0.0603 Seconds





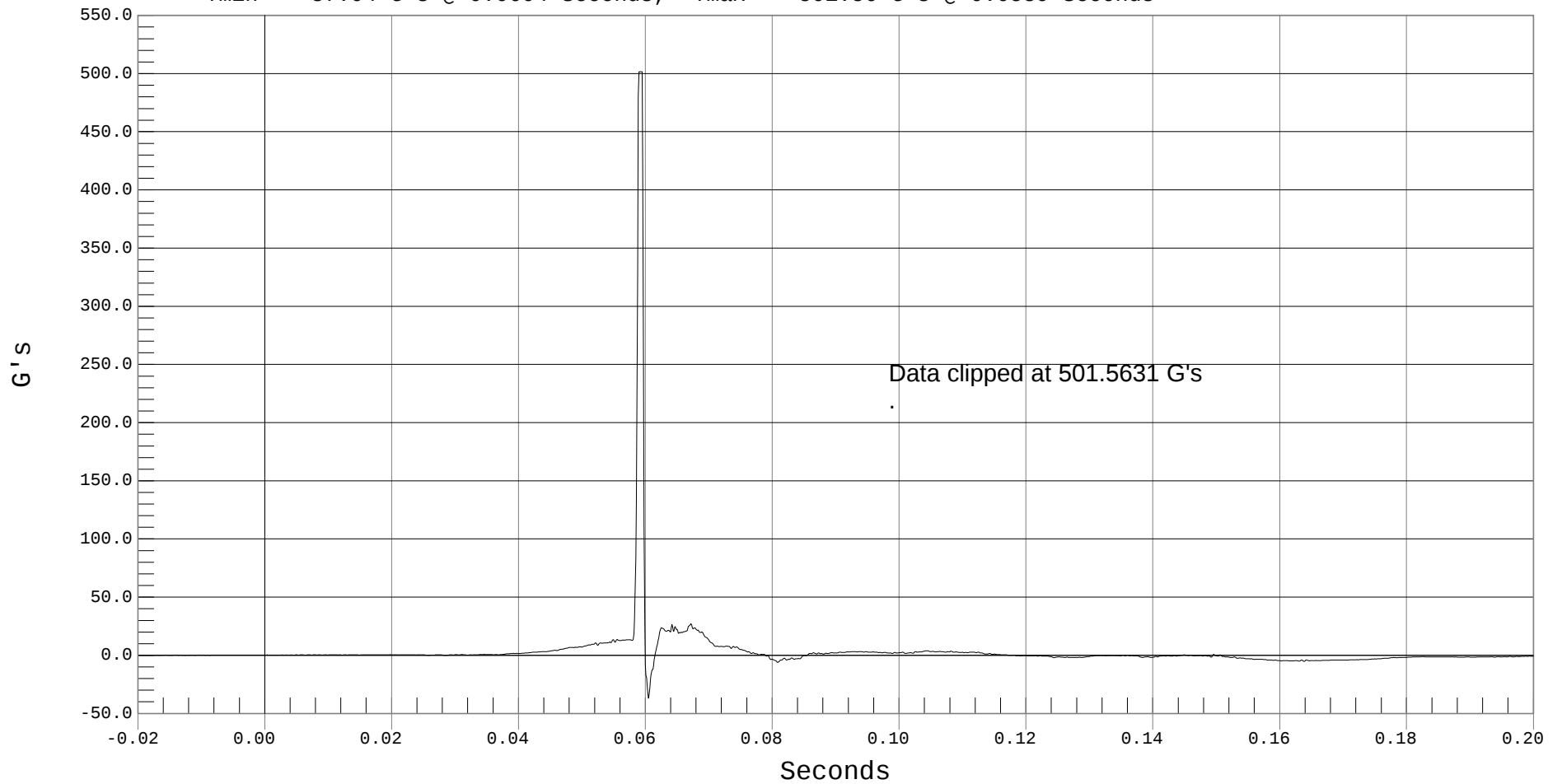
DRIVER HEAD Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER HEAD Y, B01071AT.A02

Ymin = -37.04 G's @ 0.0604 Seconds, Ymax = 501.56 G's @ 0.0589 Seconds





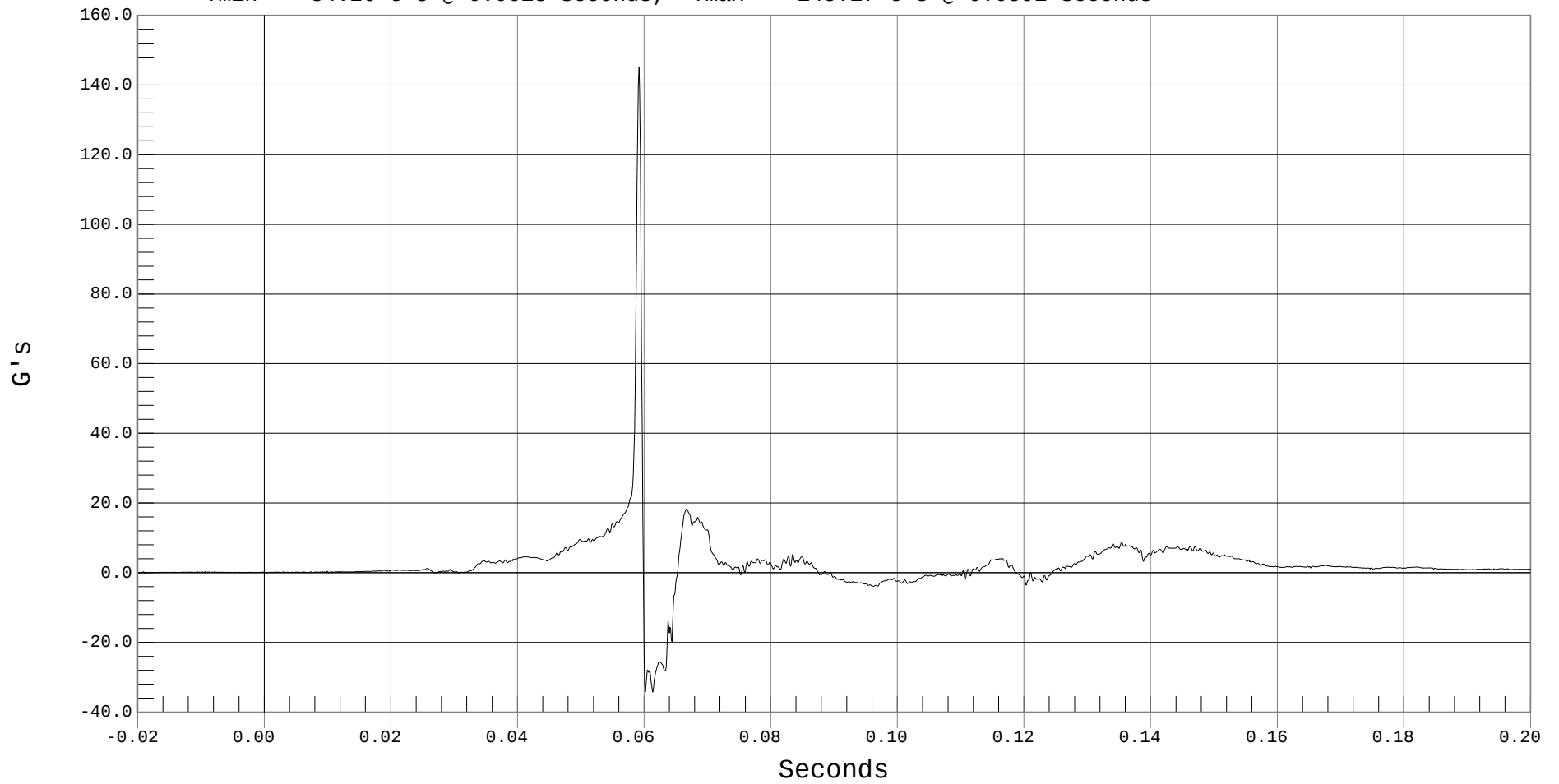
DRIVER HEAD Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER HEAD Z, B01071AT.A03

Ymin = -34.26 G's @ 0.0613 Seconds, Ymax = 145.17 G's @ 0.0591 Seconds





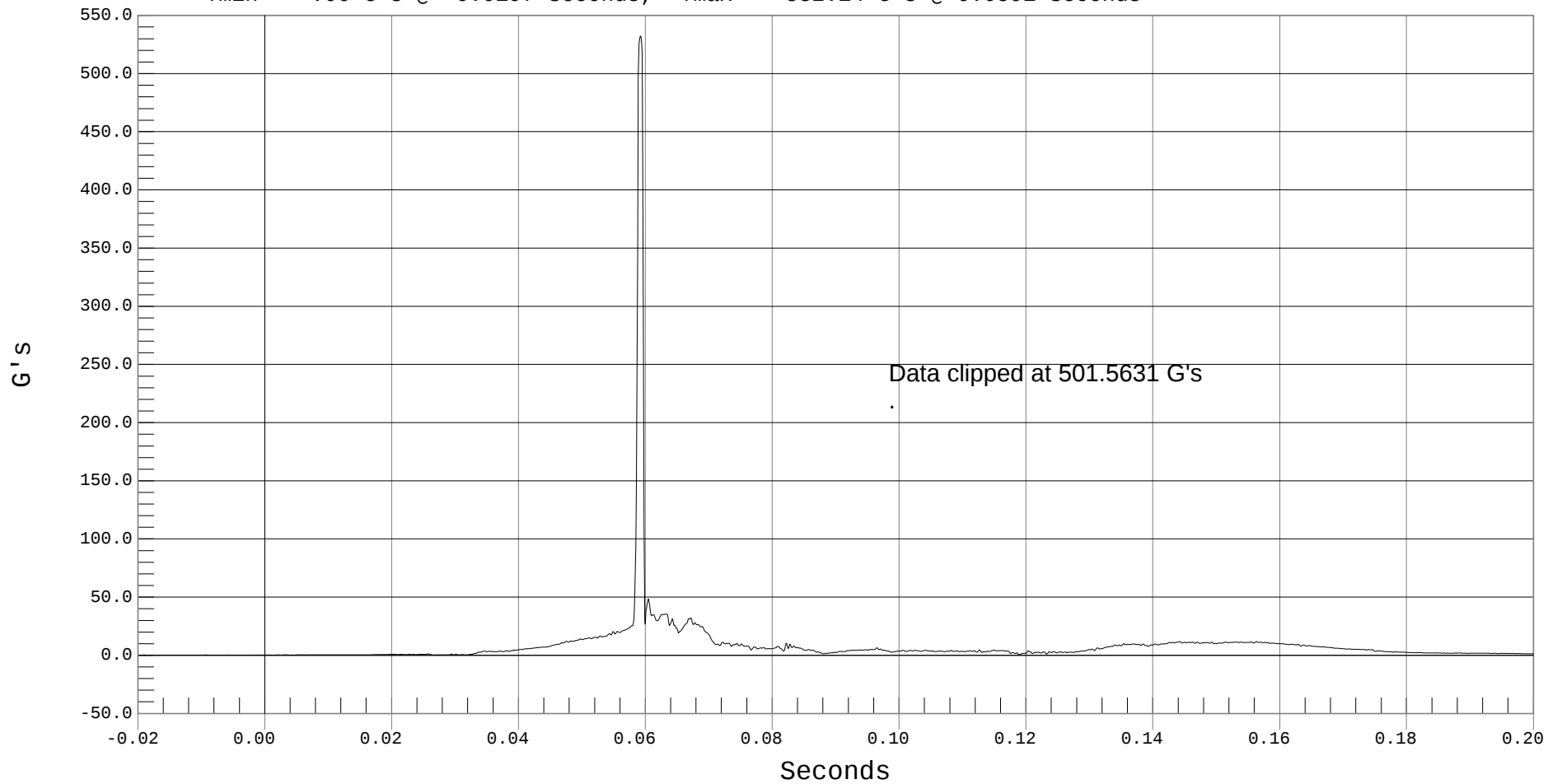
DRIVER HEAD RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER HEAD RESULTANT RESULTANT, B01071AV.A01

Ymin = .06 G's @ -0.0197 Seconds, Ymax = 532.14 G's @ 0.0591 Seconds





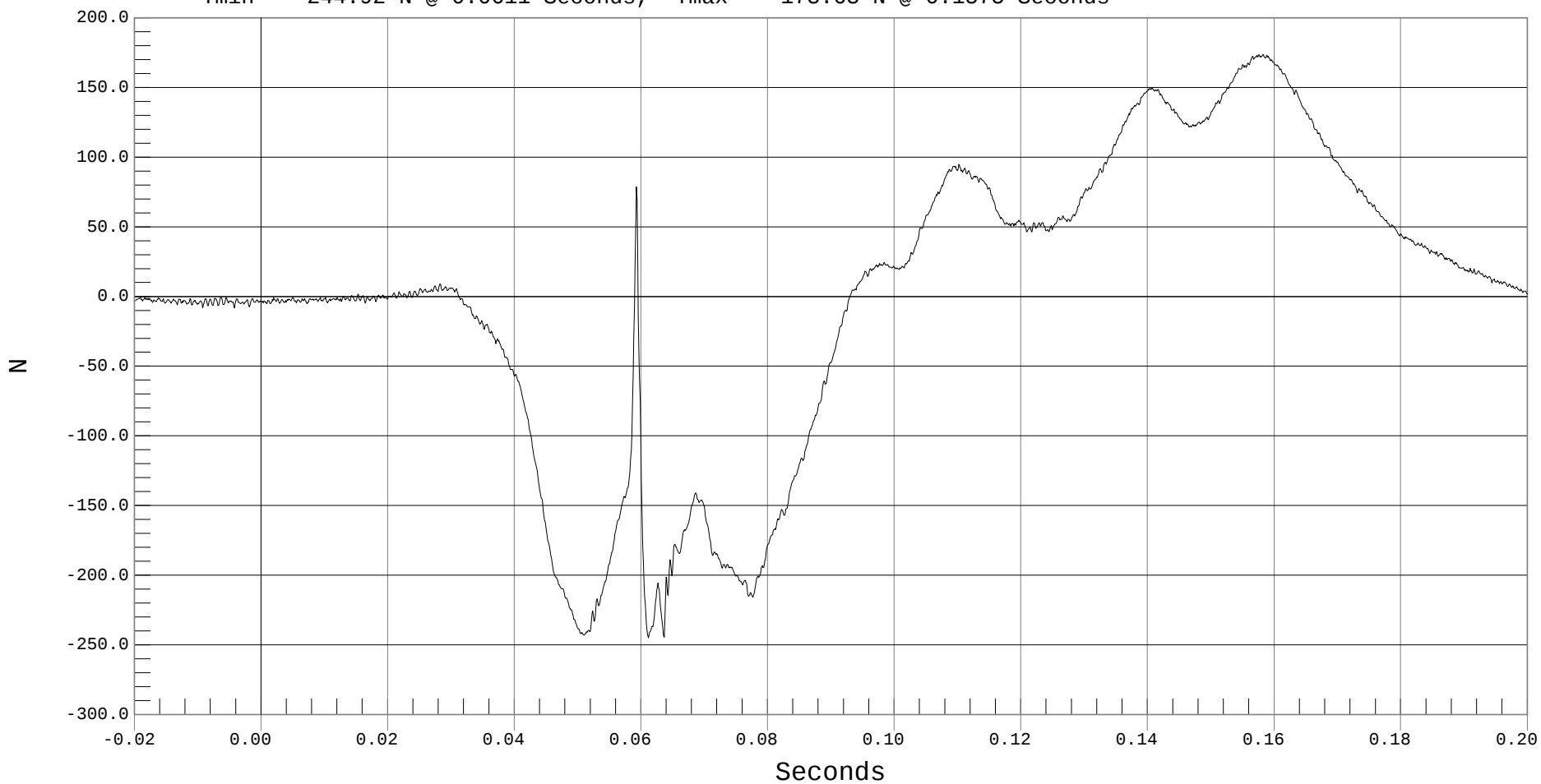
DRIVER UPPER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER UPPER NECK FORCE X, B01071FT.F04

Ymin = -244.92 N @ 0.0611 Seconds, Ymax = 173.63 N @ 0.1575 Seconds





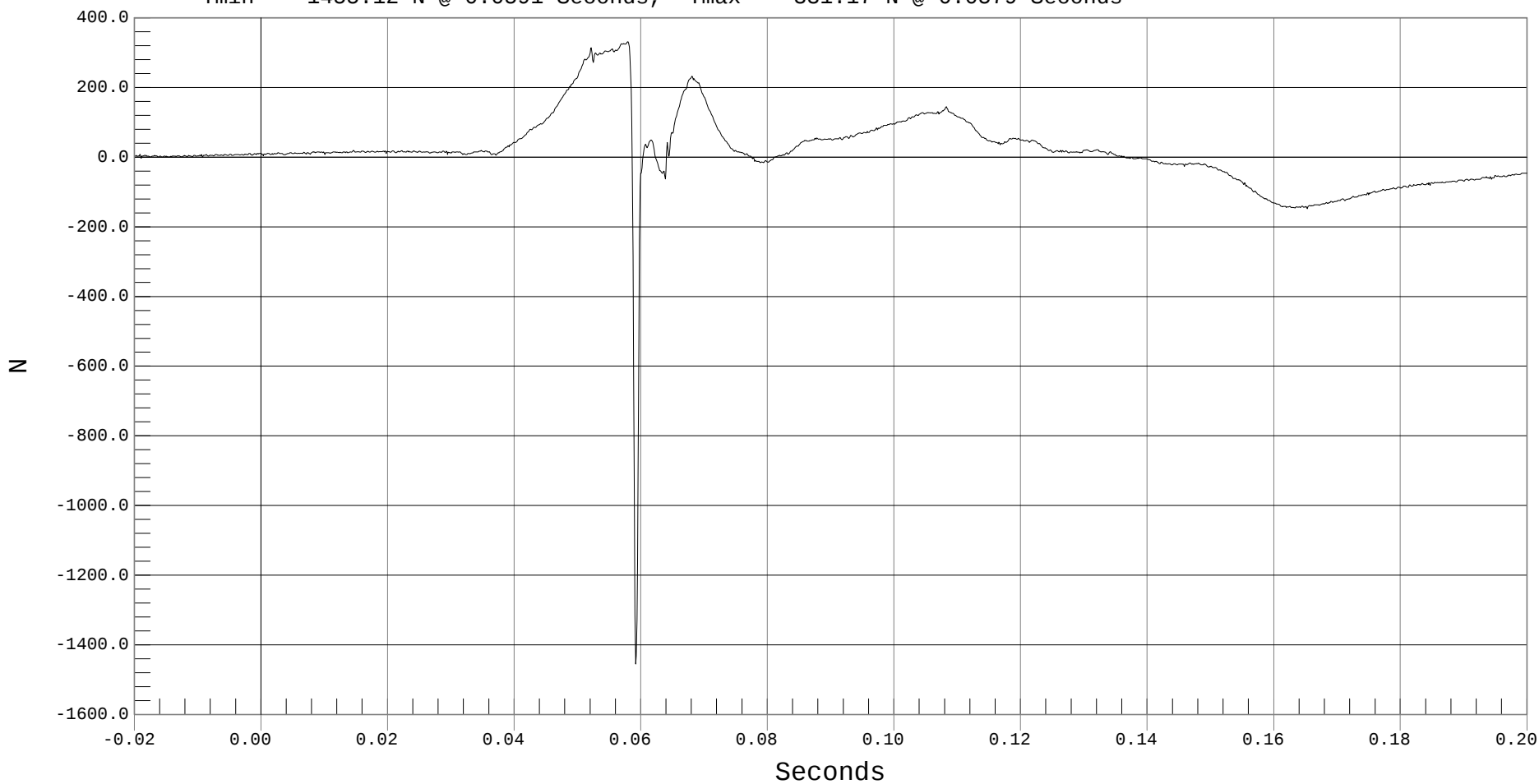
DRIVER UPPER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER UPPER NECK FORCE Y, B01071FT.F05

Ymin = -1455.12 N @ 0.0591 Seconds, Ymax = 331.17 N @ 0.0579 Seconds





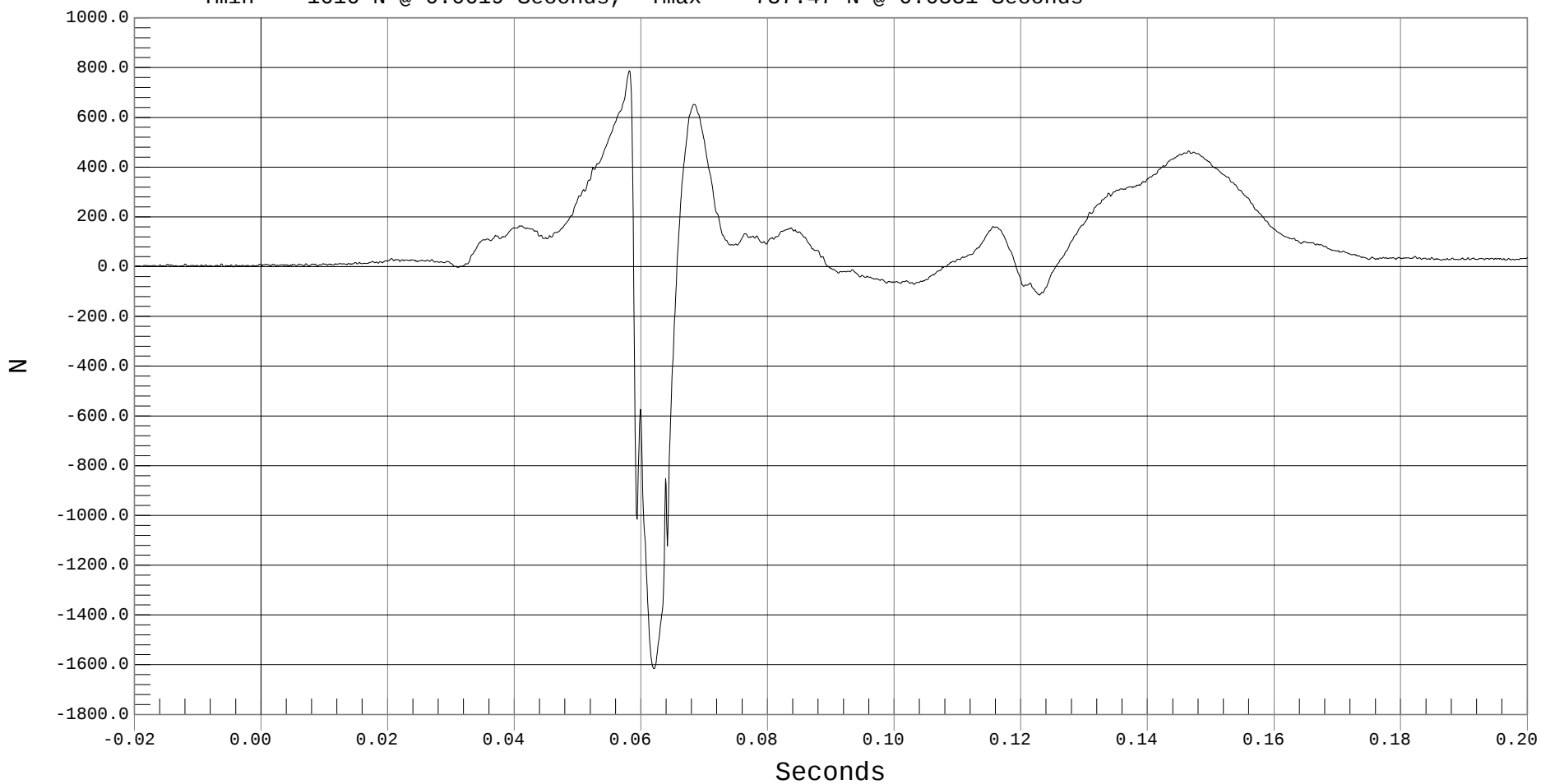
DRIVER UPPER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER UPPER NECK FORCE Z, B01071FT.F06

Ymin = -1616 N @ 0.0619 Seconds, Ymax = 787.47 N @ 0.0581 Seconds





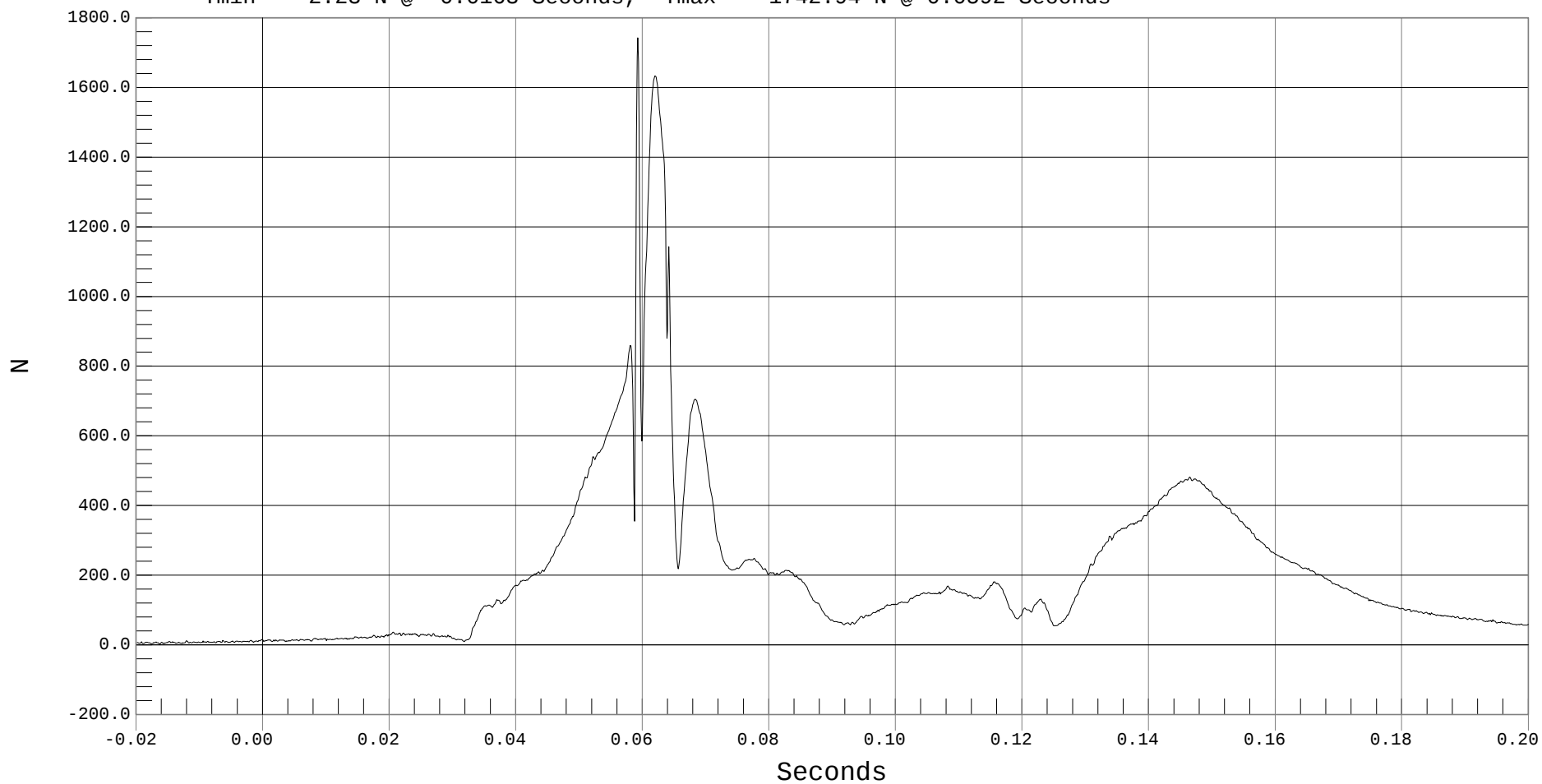
DRIVER UPPER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER UPPER NECK FORCE RESULTANT, B01071FV.F04

Ymin = 2.23 N @ -0.0163 Seconds, Ymax = 1742.94 N @ 0.0592 Seconds





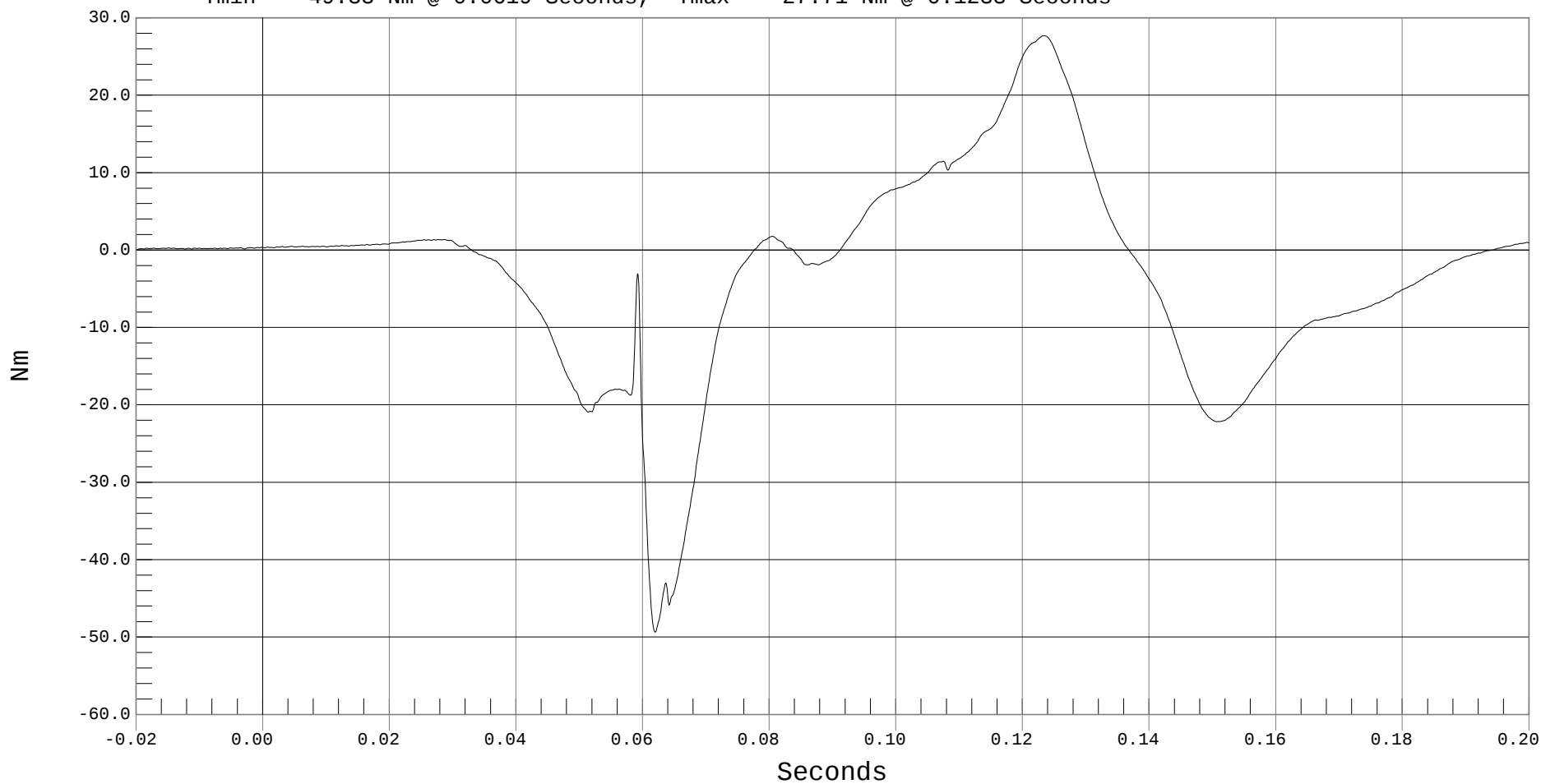
DRIVER UPPER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER UPPER NECK MOMENT X, B01071MF.M07

Ymin = -49.38 Nm @ 0.0619 Seconds, Ymax = 27.71 Nm @ 0.1233 Seconds





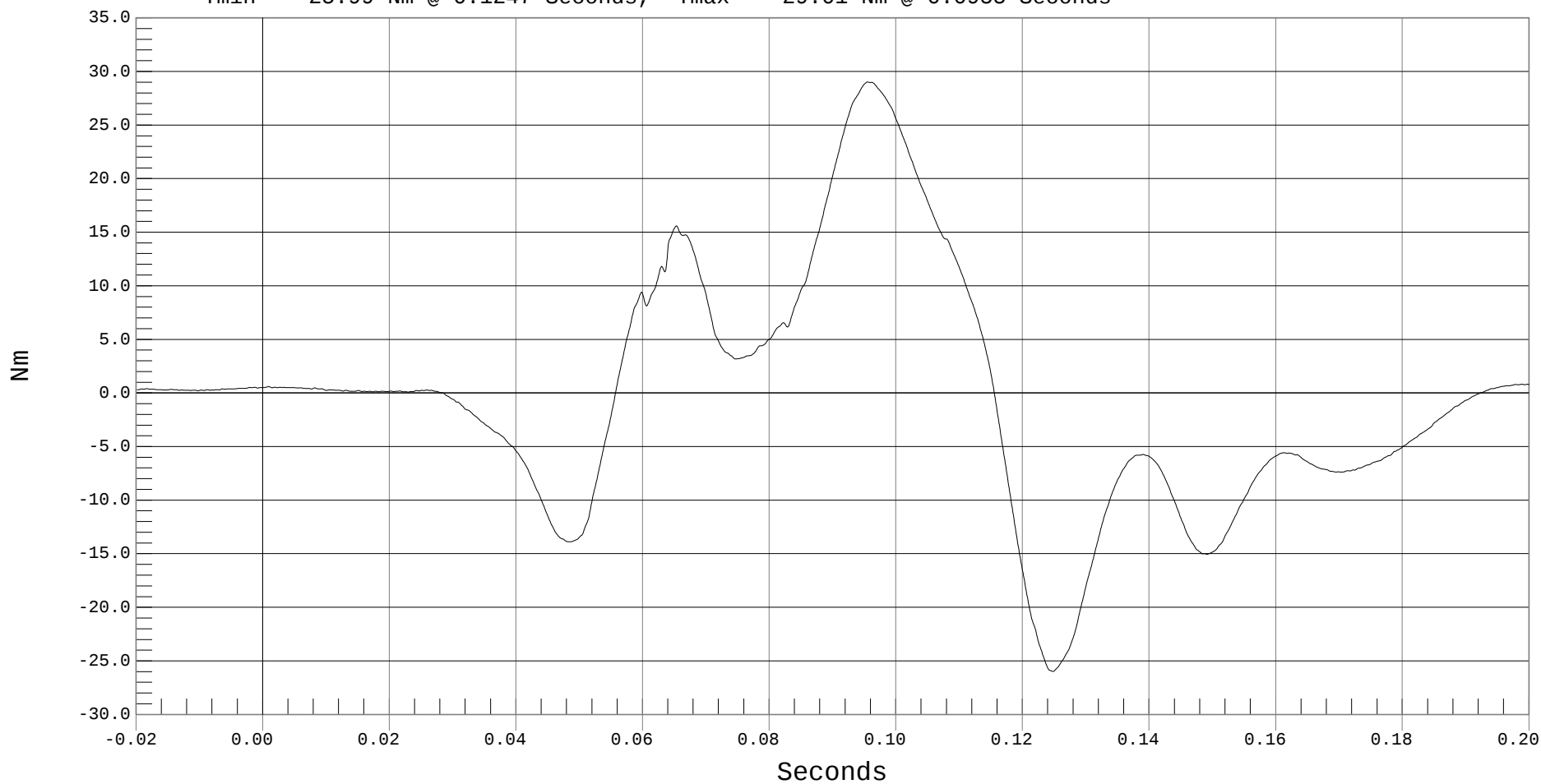
DRIVER UPPER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT Y, B01071MF.M08

Ymin = -25.99 Nm @ 0.1247 Seconds, Ymax = 29.01 Nm @ 0.0955 Seconds





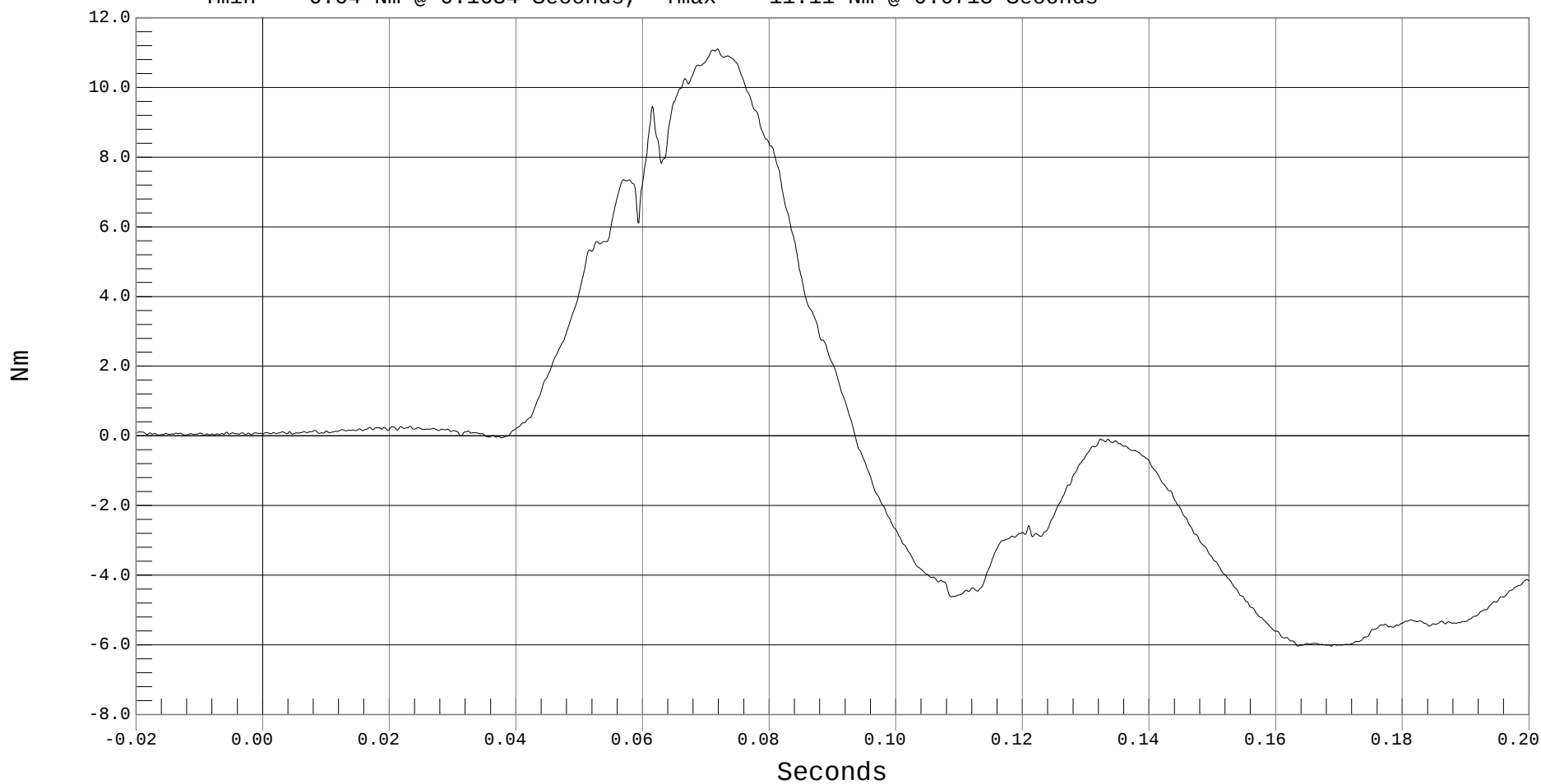
DRIVER UPPER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT Z, B01071MF.M09

Ymin = -6.04 Nm @ 0.1634 Seconds, Ymax = 11.11 Nm @ 0.0718 Seconds





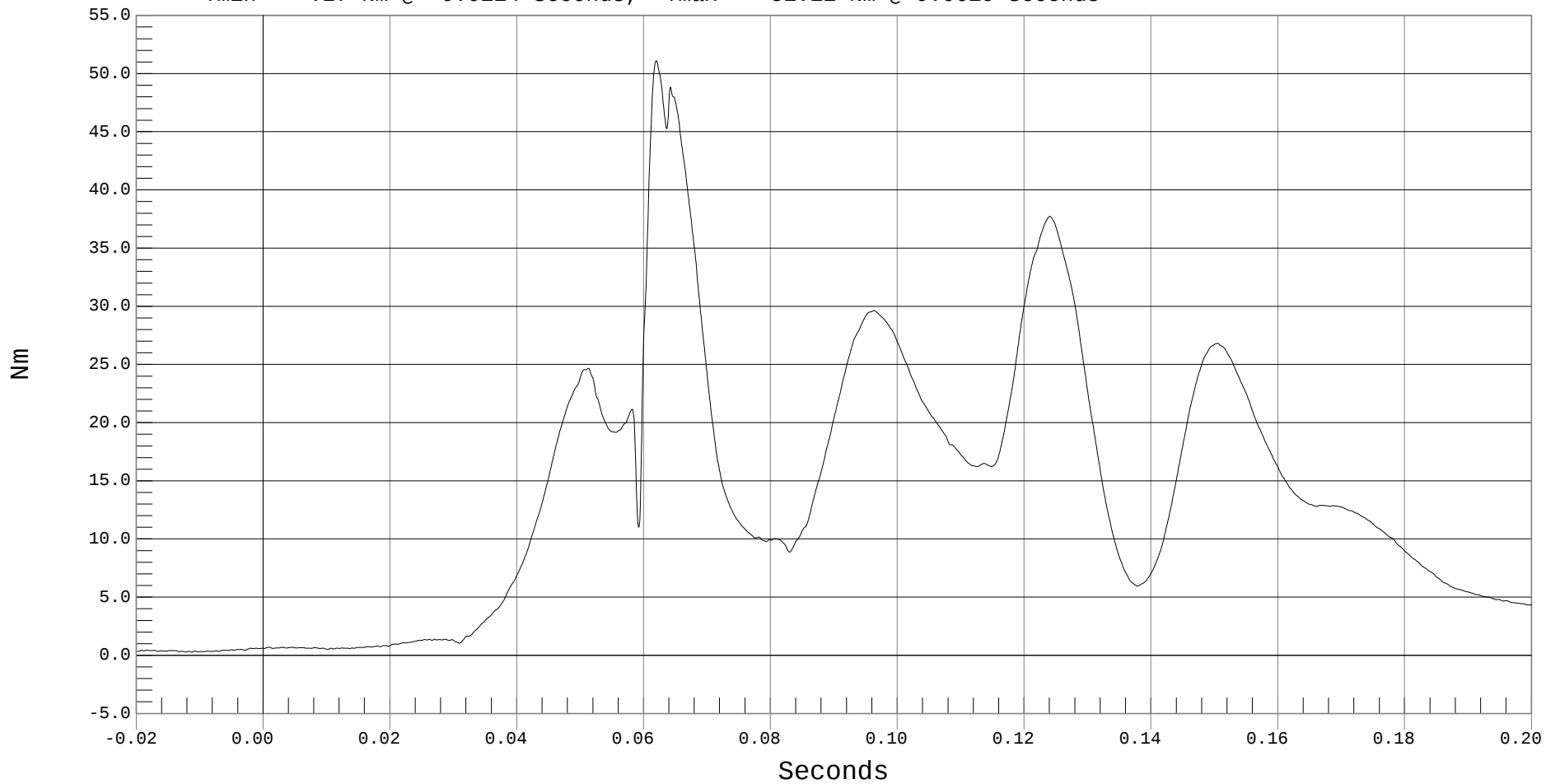
DRIVER UPPER NECK MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER UPPER NECK MOMENT RESULTANT, B01071MV.M07

Ymin = .27 Nm @ -0.0114 Seconds, Ymax = 51.11 Nm @ 0.0619 Seconds





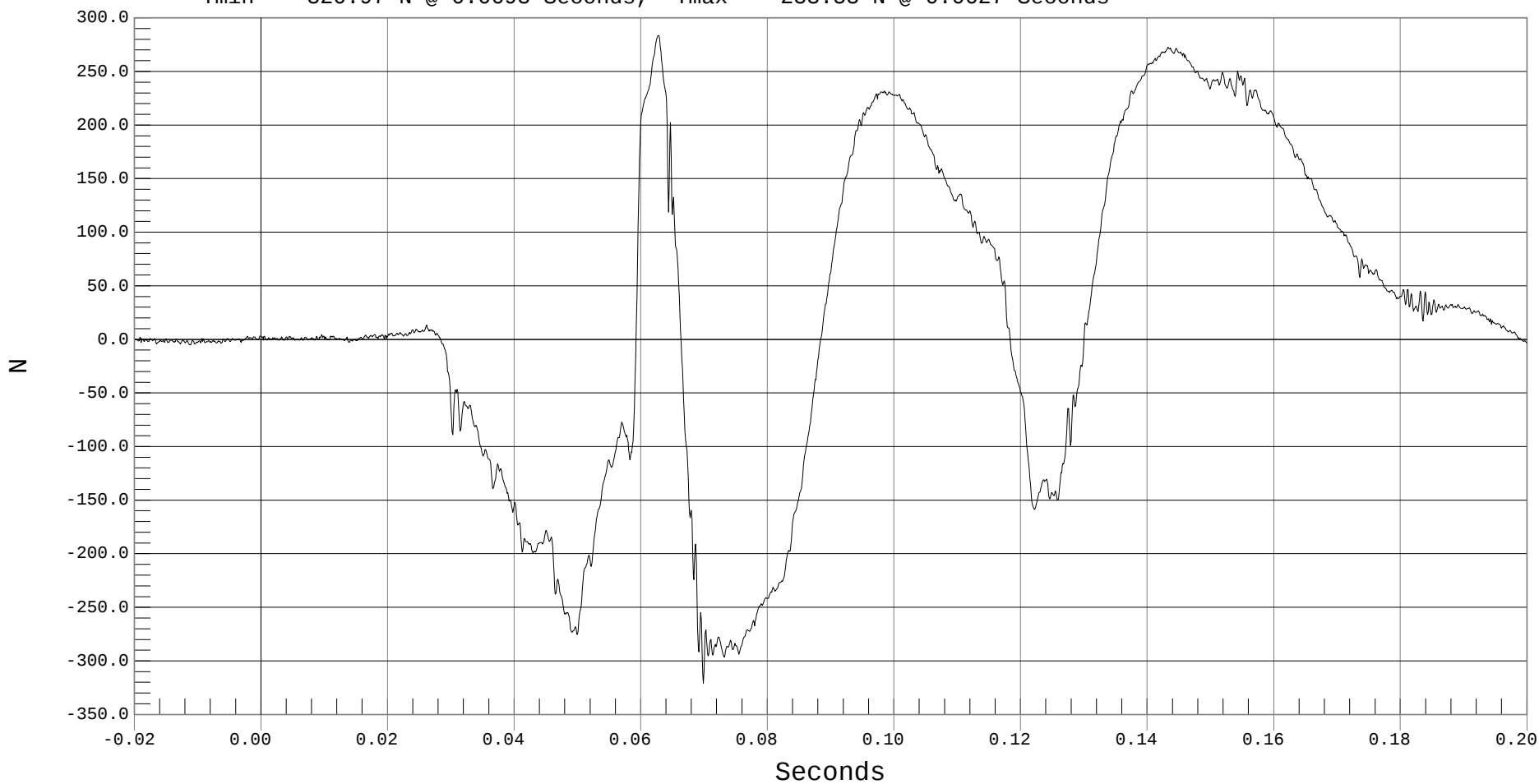
DRIVER LOWER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE X, B01071FT.F10

Ymin = -320.97 N @ 0.0698 Seconds, Ymax = 283.58 N @ 0.0627 Seconds





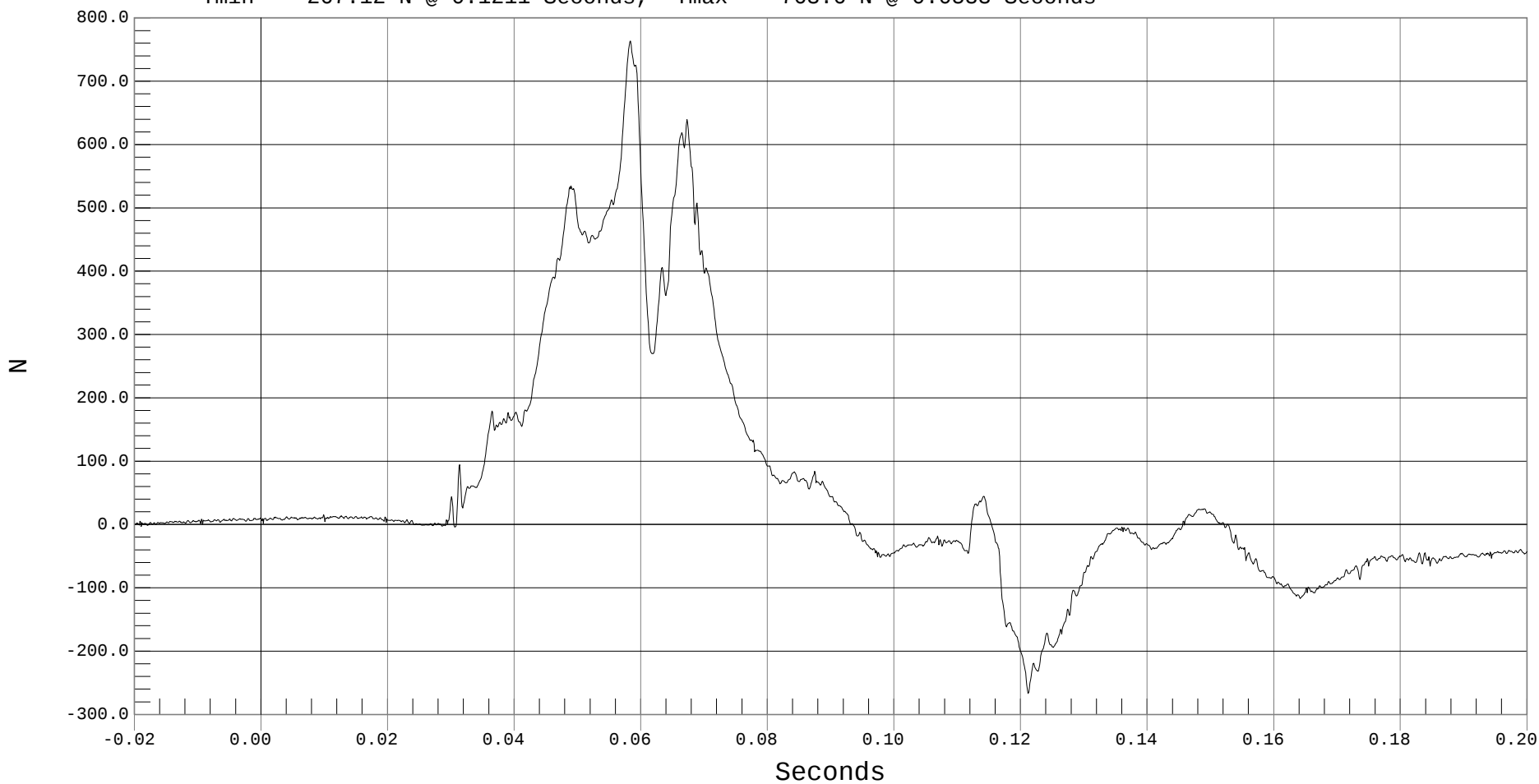
DRIVER LOWER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE Y, B01071FT.F11

Ymin = -267.12 N @ 0.1211 Seconds, Ymax = 763.6 N @ 0.0583 Seconds





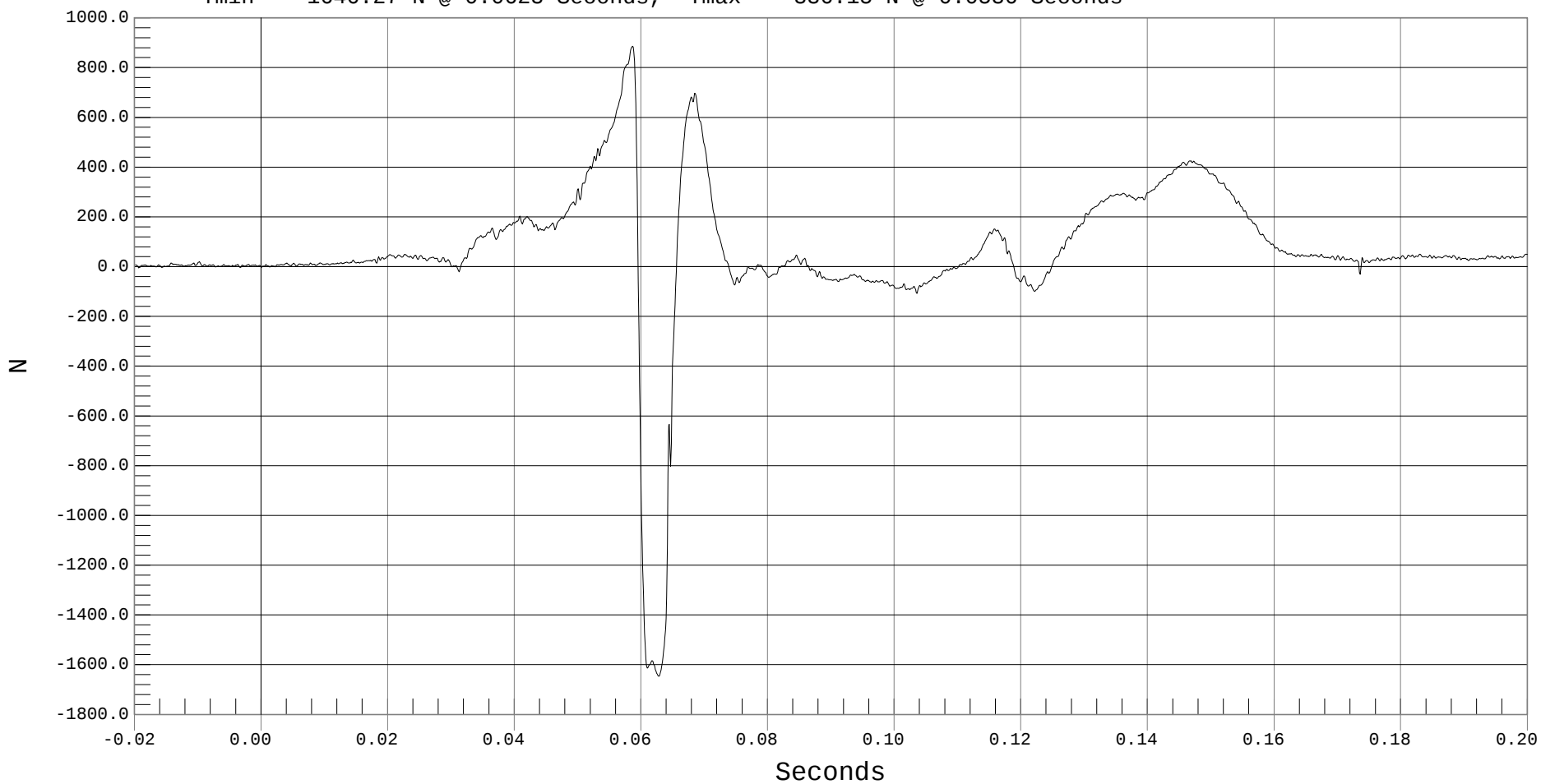
DRIVER LOWER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE Z, B01071FT.F12

Ymin = -1646.27 N @ 0.0628 Seconds, Ymax = 886.15 N @ 0.0586 Seconds





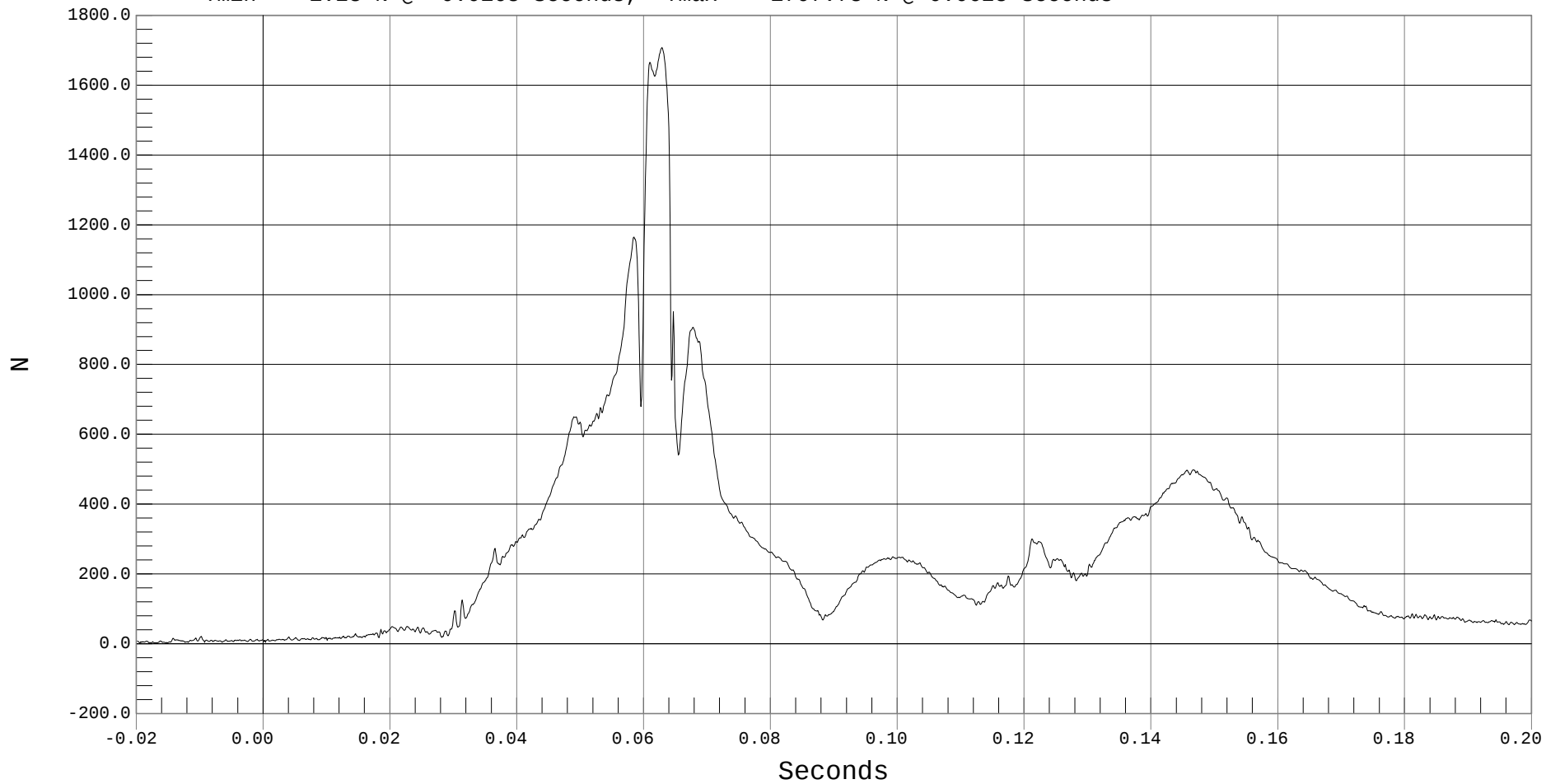
DRIVER LOWER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LOWER NECK FORCE RESULTANT, B01071FV.F10

Ymin = 1.23 N @ -0.0168 Seconds, Ymax = 1707.73 N @ 0.0628 Seconds





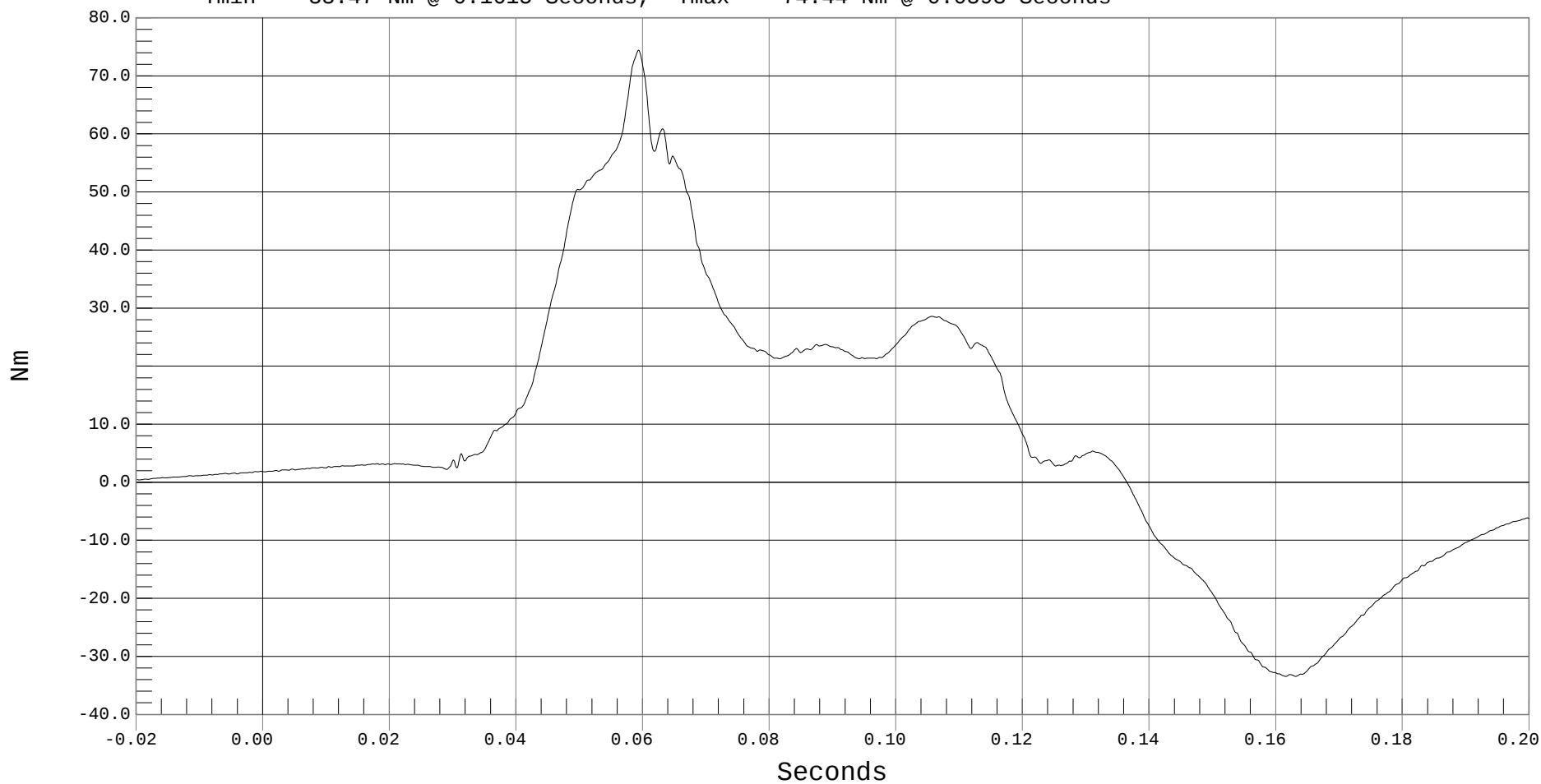
DRIVER LOWER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT X, B01071MF.M13

Ymin = -33.47 Nm @ 0.1615 Seconds, Ymax = 74.44 Nm @ 0.0593 Seconds





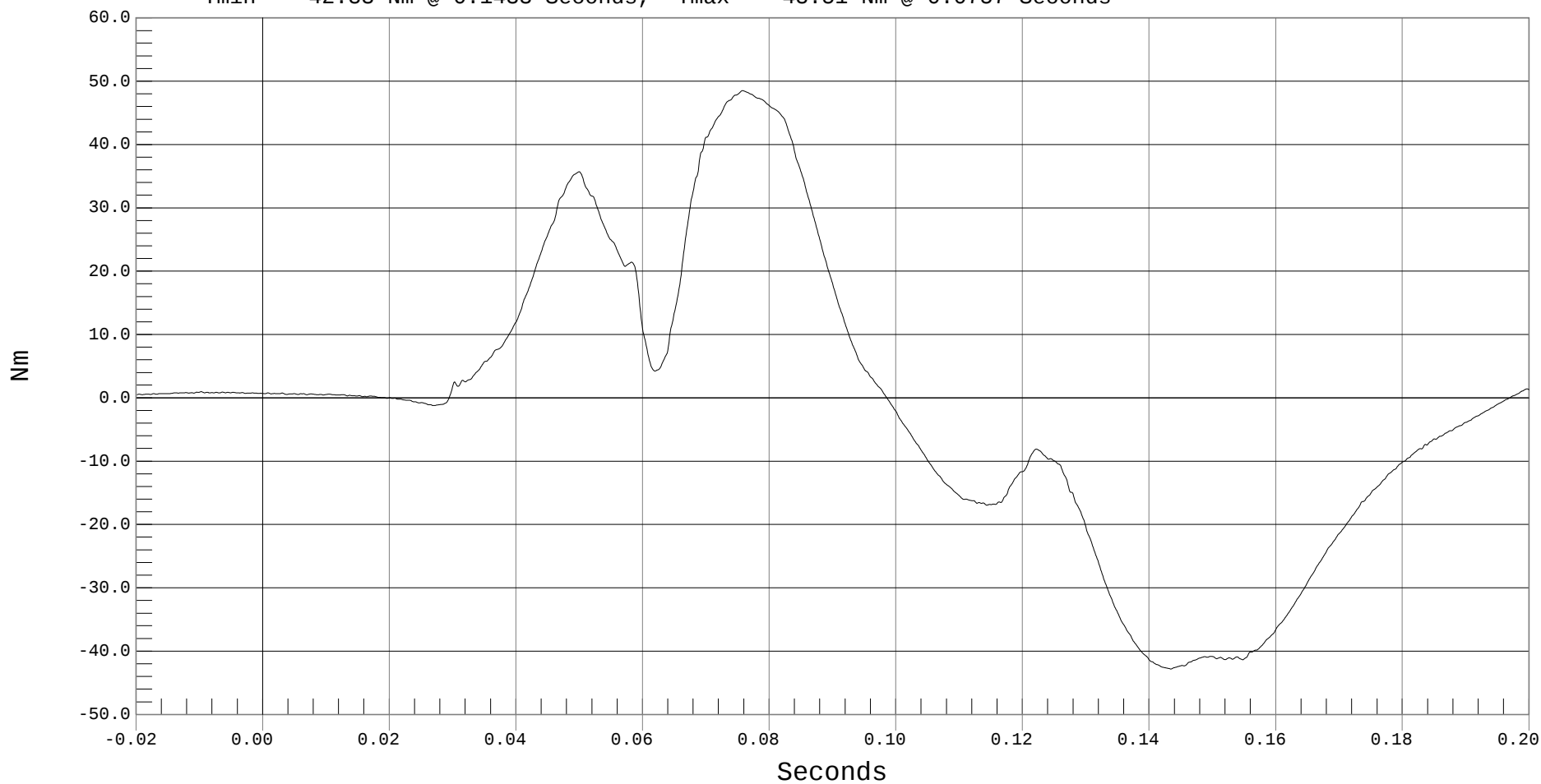
DRIVER LOWER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT Y, B01071MF.M14

Ymin = -42.83 Nm @ 0.1433 Seconds, Ymax = 48.51 Nm @ 0.0757 Seconds





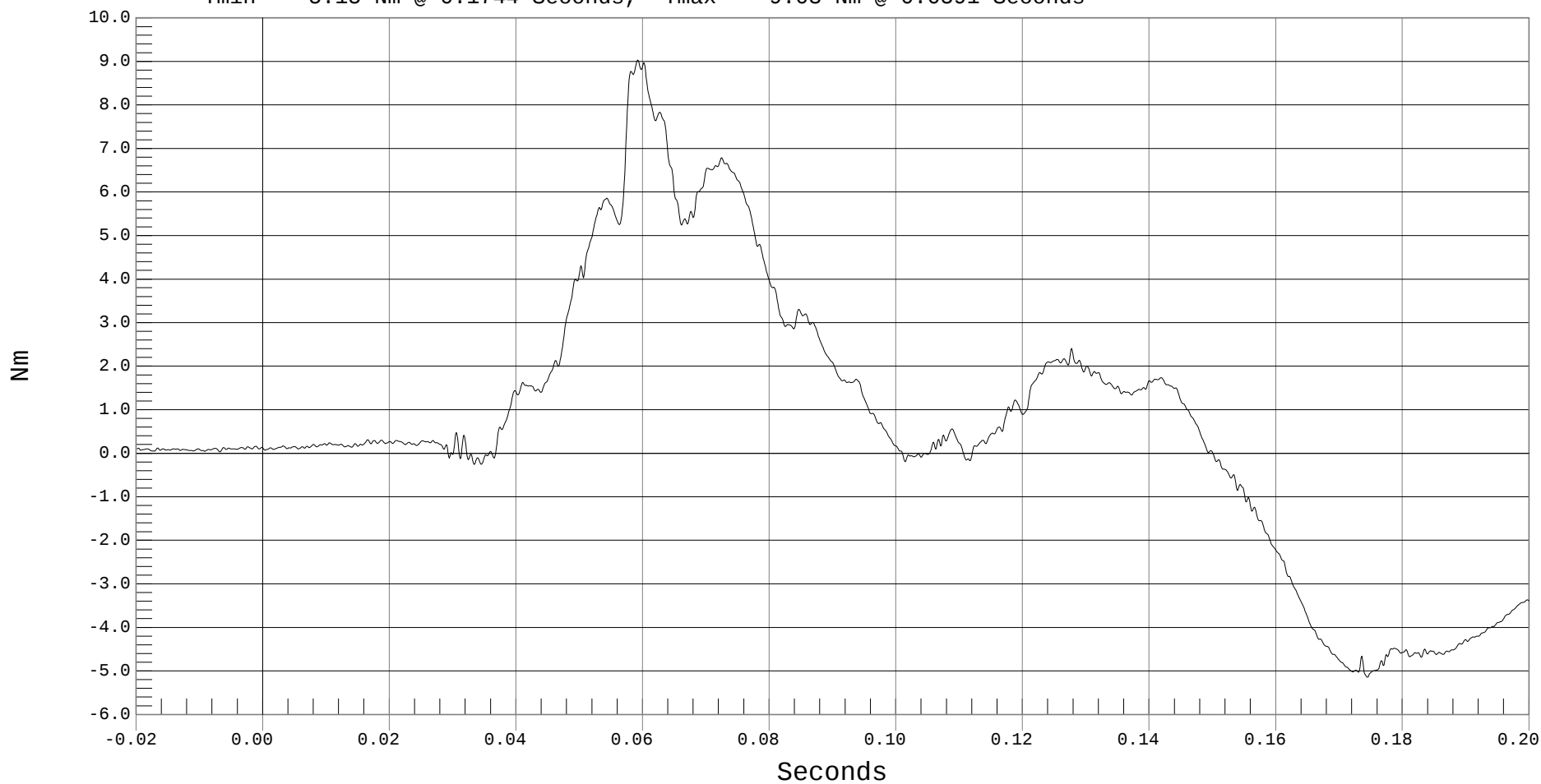
DRIVER LOWER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT Z, B01071MF.M15

Ymin = -5.15 Nm @ 0.1744 Seconds, Ymax = 9.03 Nm @ 0.0591 Seconds





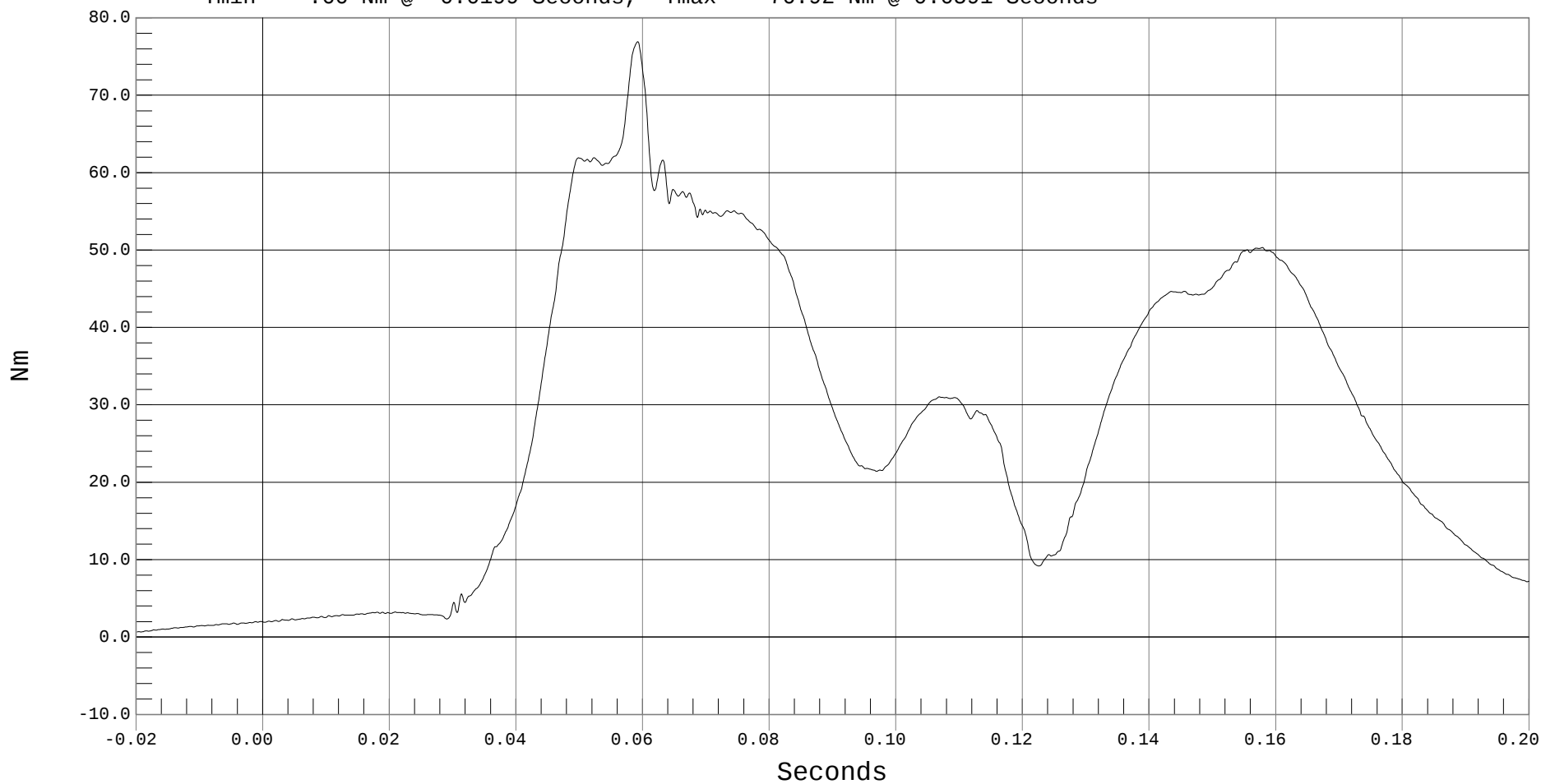
DRIVER LOWER NECK MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LOWER NECK MOMENT RESULTANT, B01071MV.M13

Ymin = .66 Nm @ -0.0199 Seconds, Ymax = 76.92 Nm @ 0.0591 Seconds





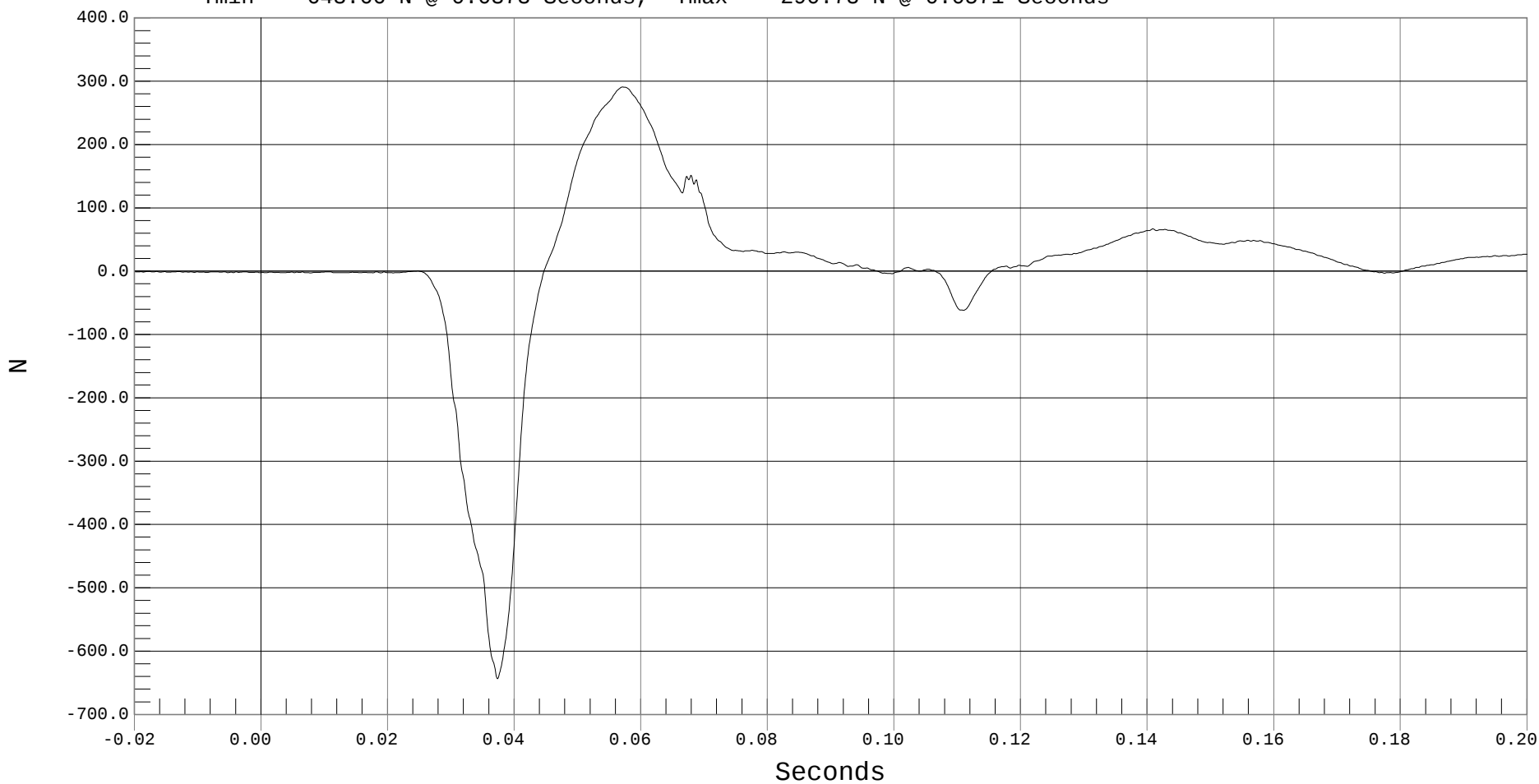
DRIVER SHOULDER FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER SHOULDER FORCE X, B01071FF.F16

Ymin = -643.66 N @ 0.0373 Seconds, Ymax = 290.78 N @ 0.0571 Seconds





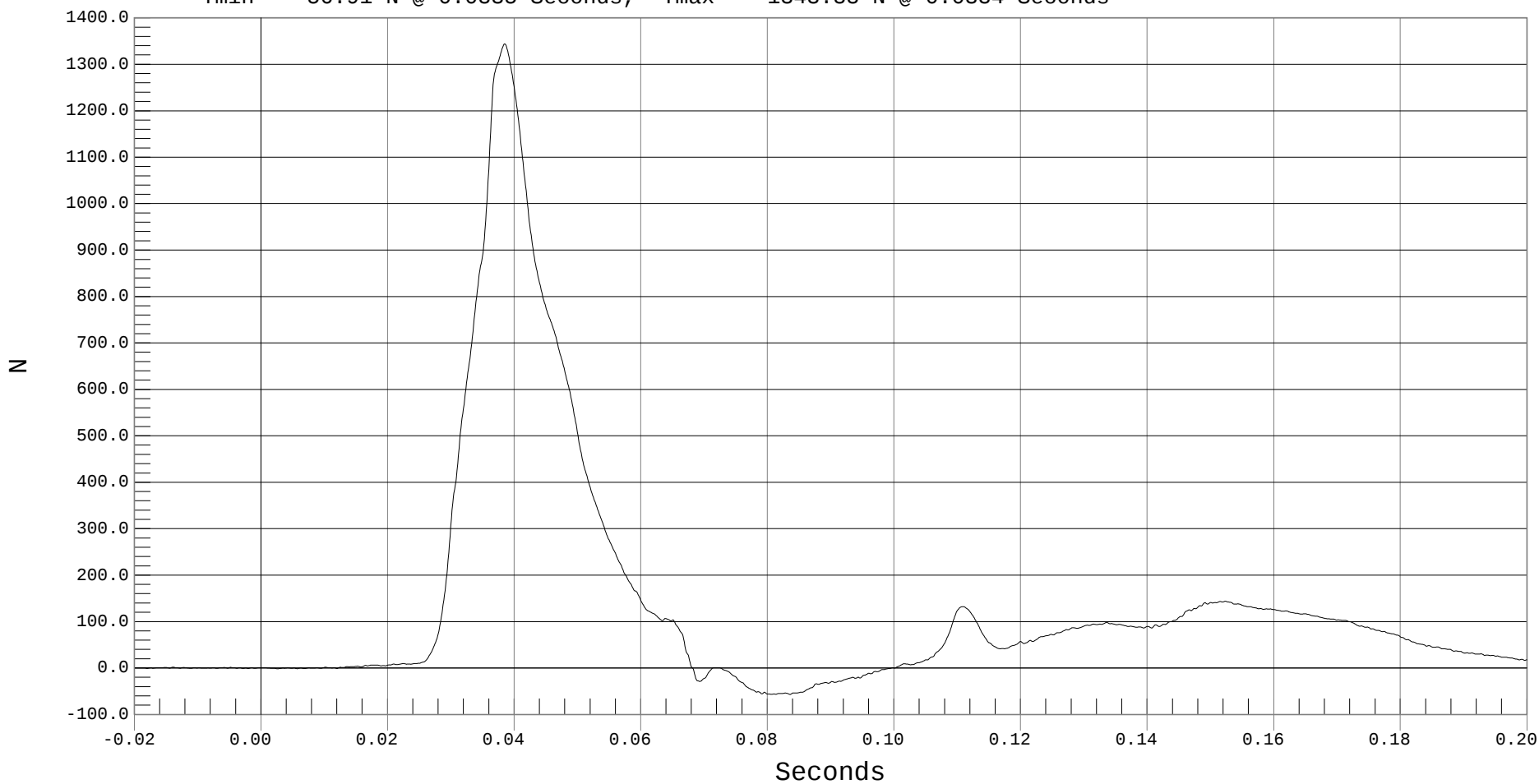
DRIVER SHOULDER FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER SHOULDER FORCE Y, B01071FF.F17

Ymin = -56.91 N @ 0.0835 Seconds, Ymax = 1343.88 N @ 0.0384 Seconds





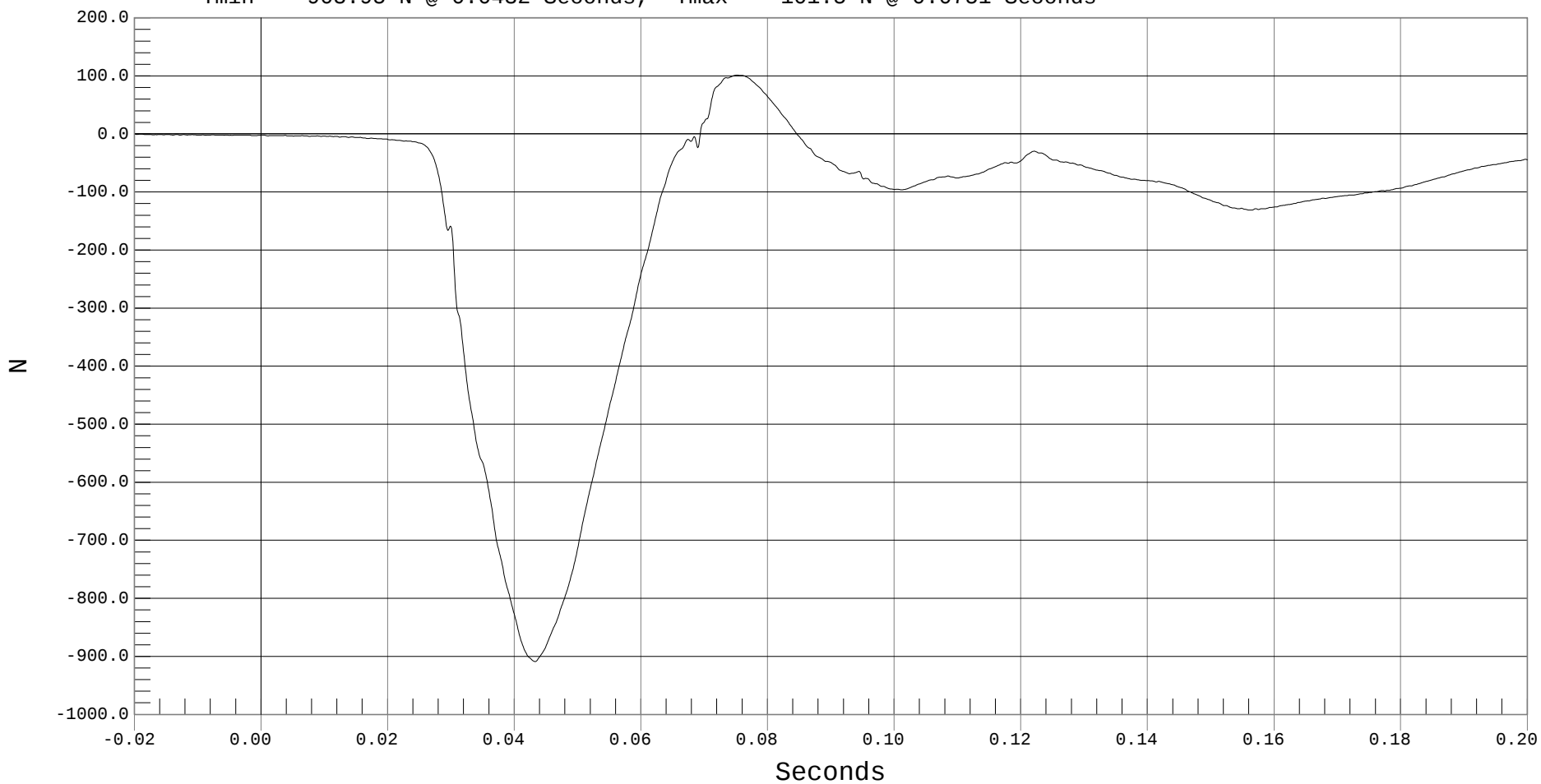
DRIVER SHOULDER FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER SHOULDER FORCE Z, B01071FF.F18

Ymin = -908.95 N @ 0.0432 Seconds, Ymax = 101.5 N @ 0.0751 Seconds





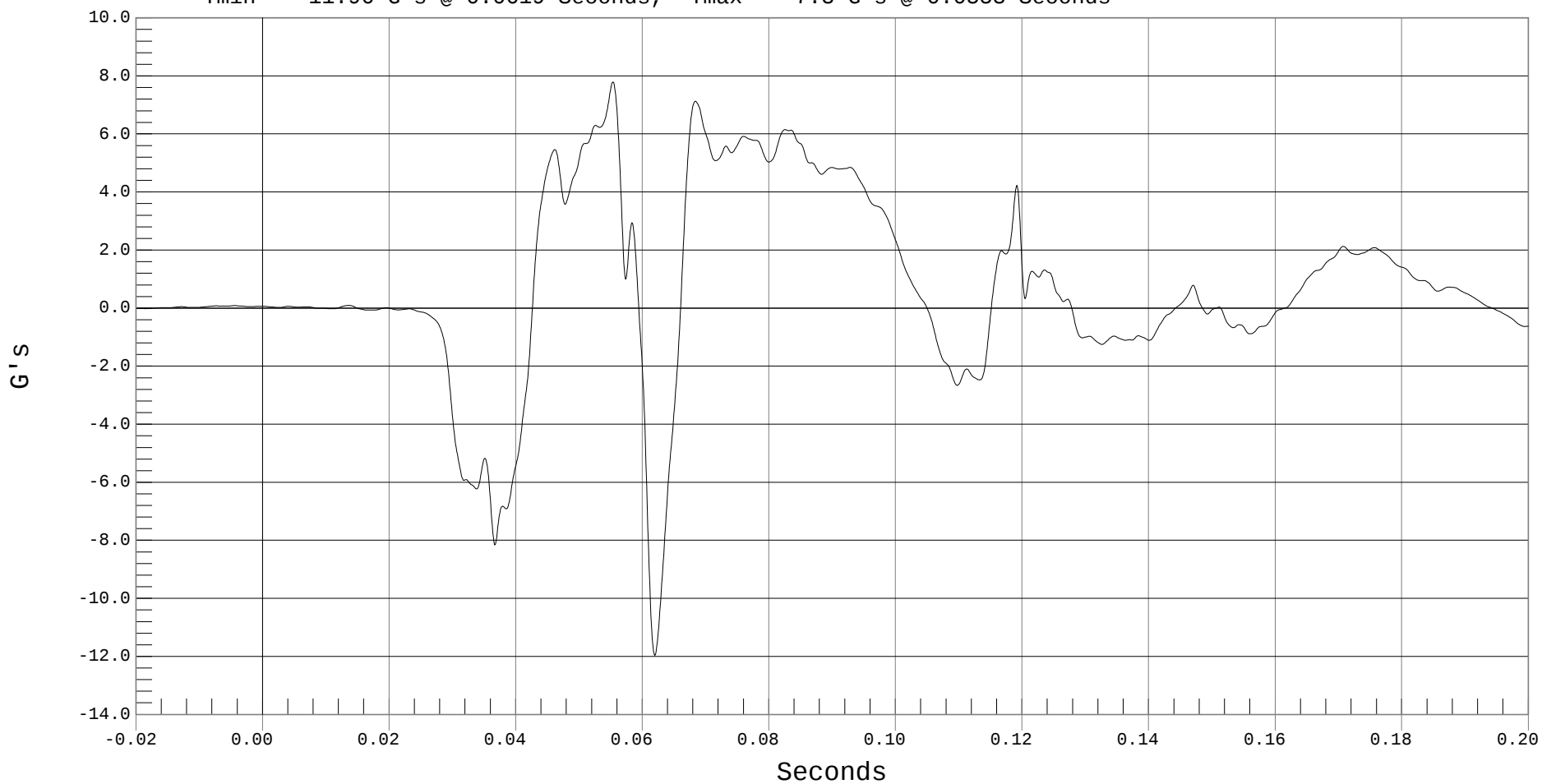
UPPER SPINE X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE X, B01071AF.A20

Ymin = -11.96 G's @ 0.0619 Seconds, Ymax = 7.8 G's @ 0.0553 Seconds





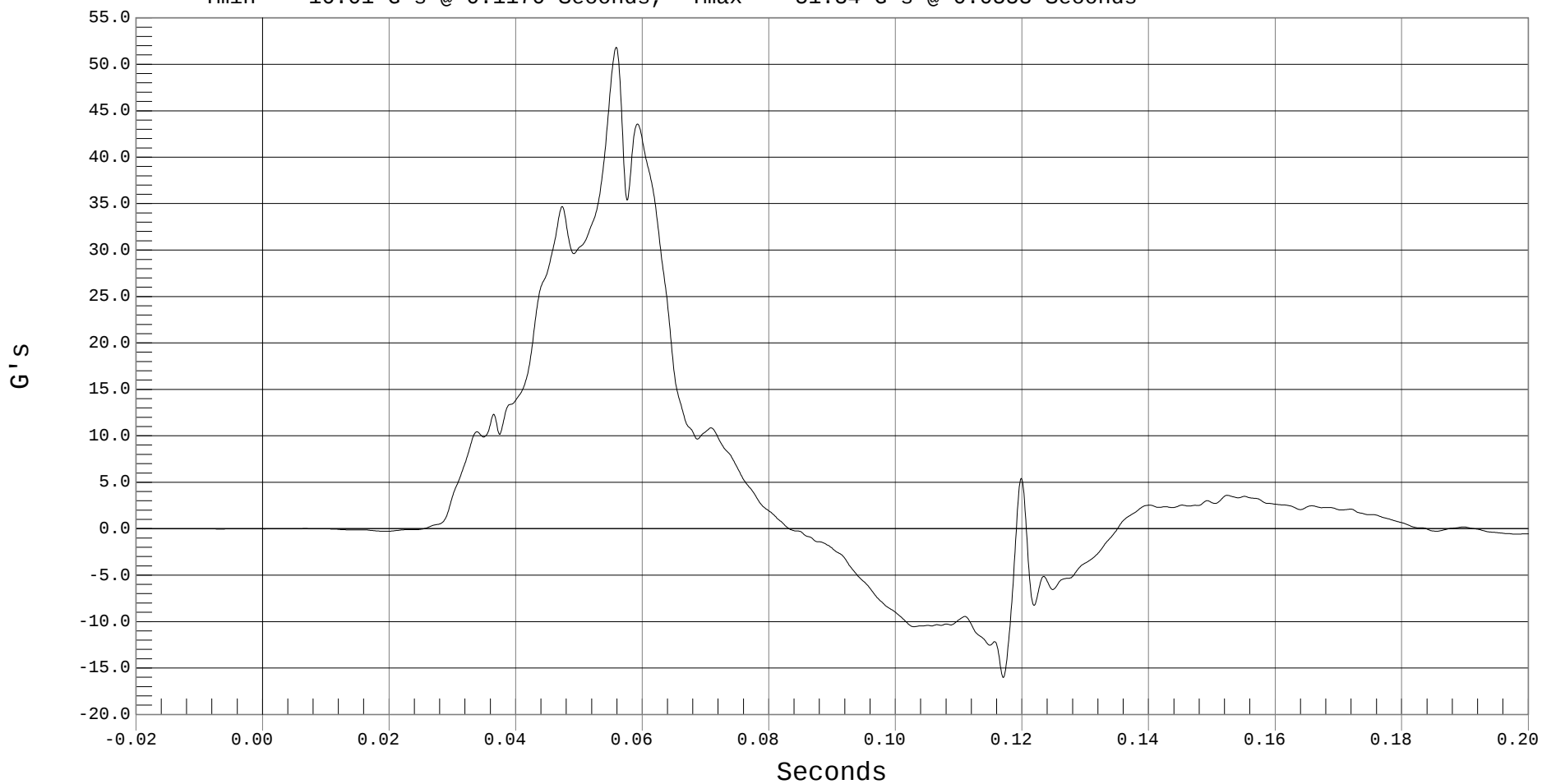
UPPER SPINE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE Y, B01071AF.A21

Ymin = -16.01 G's @ 0.1170 Seconds, Ymax = 51.84 G's @ 0.0558 Seconds





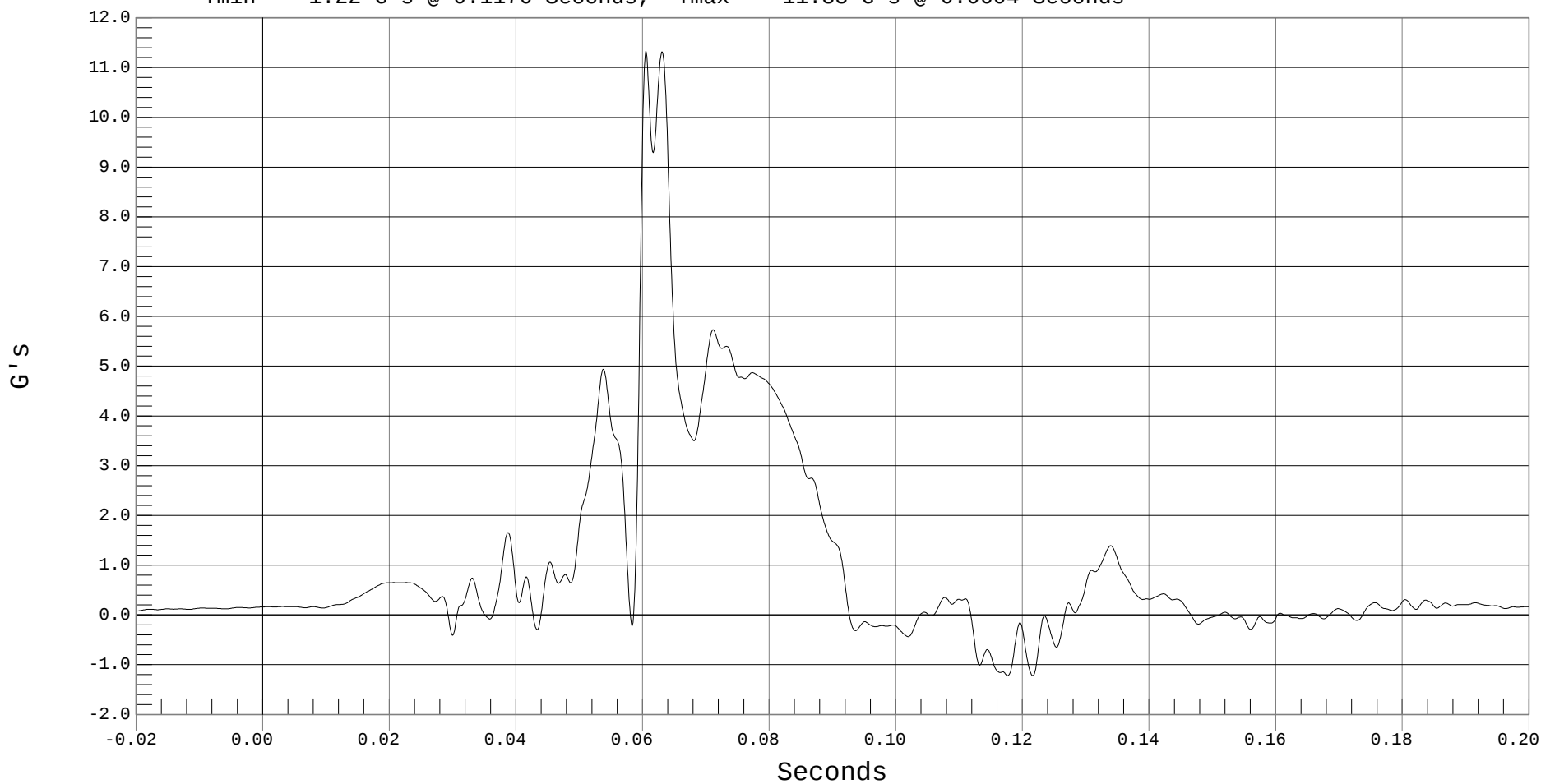
UPPER SPINE Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE Z, B01071AF.A22

Ymin = -1.22 G's @ 0.1176 Seconds, Ymax = 11.33 G's @ 0.0604 Seconds





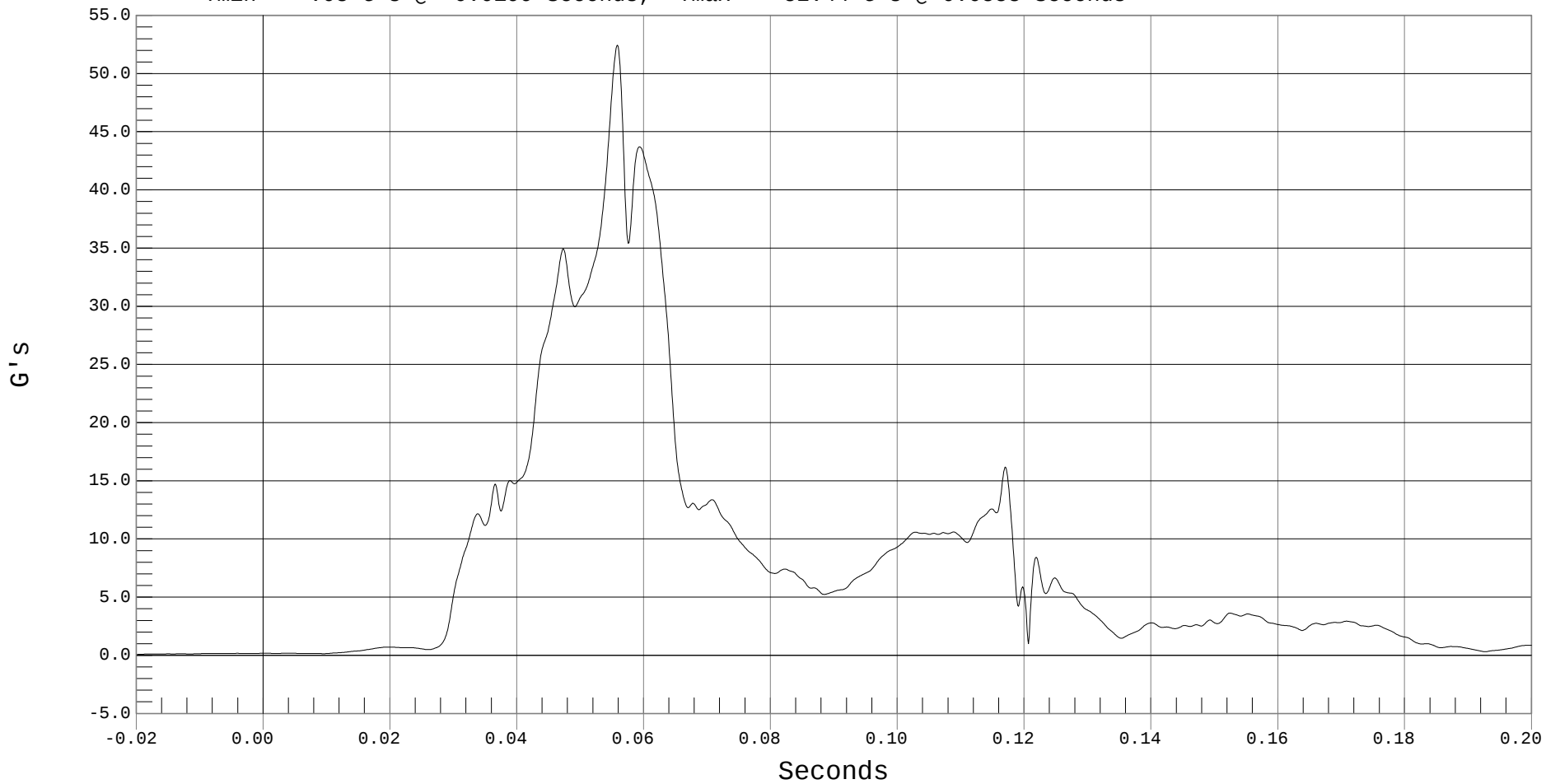
UPPER SPINE RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER UPPER SPINE RESULTANT, B01071AV.A20

Ymin = .08 G's @ -0.0199 Seconds, Ymax = 52.44 G's @ 0.0558 Seconds





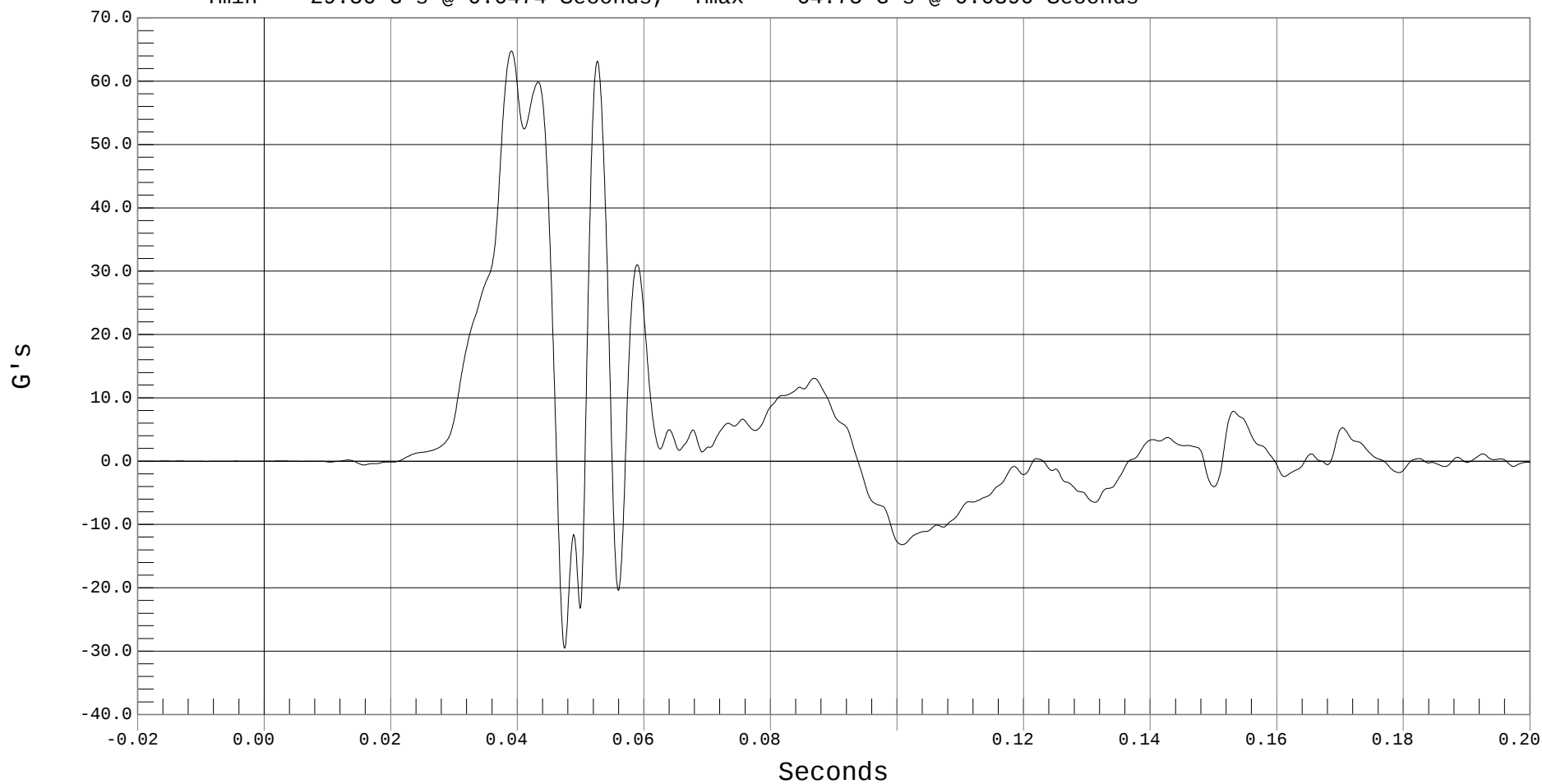
DRIVER UPPER RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

1 DRIVER UPPER RIB Y, B01071AF.A23

Ymin = -29.56 G's @ 0.0474 Seconds, Ymax = 64.75 G's @ 0.0390 Seconds





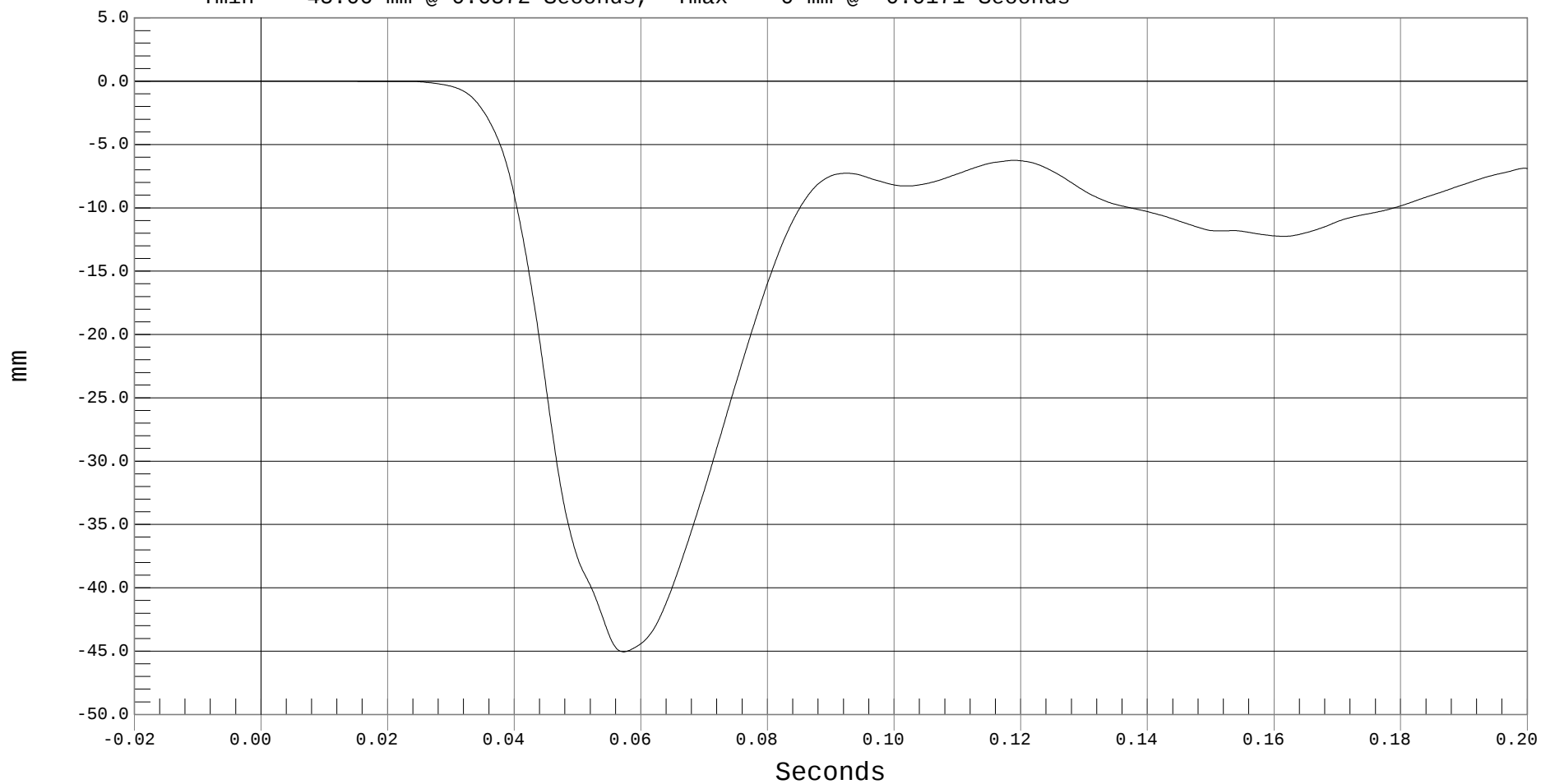
DRIVER UPPER RIB DISPLACEMENT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER UPPER RIB DISPLACEMENT, B01071DF.D26

Ymin = -45.06 mm @ 0.0572 Seconds, Ymax = 0 mm @ -0.0171 Seconds





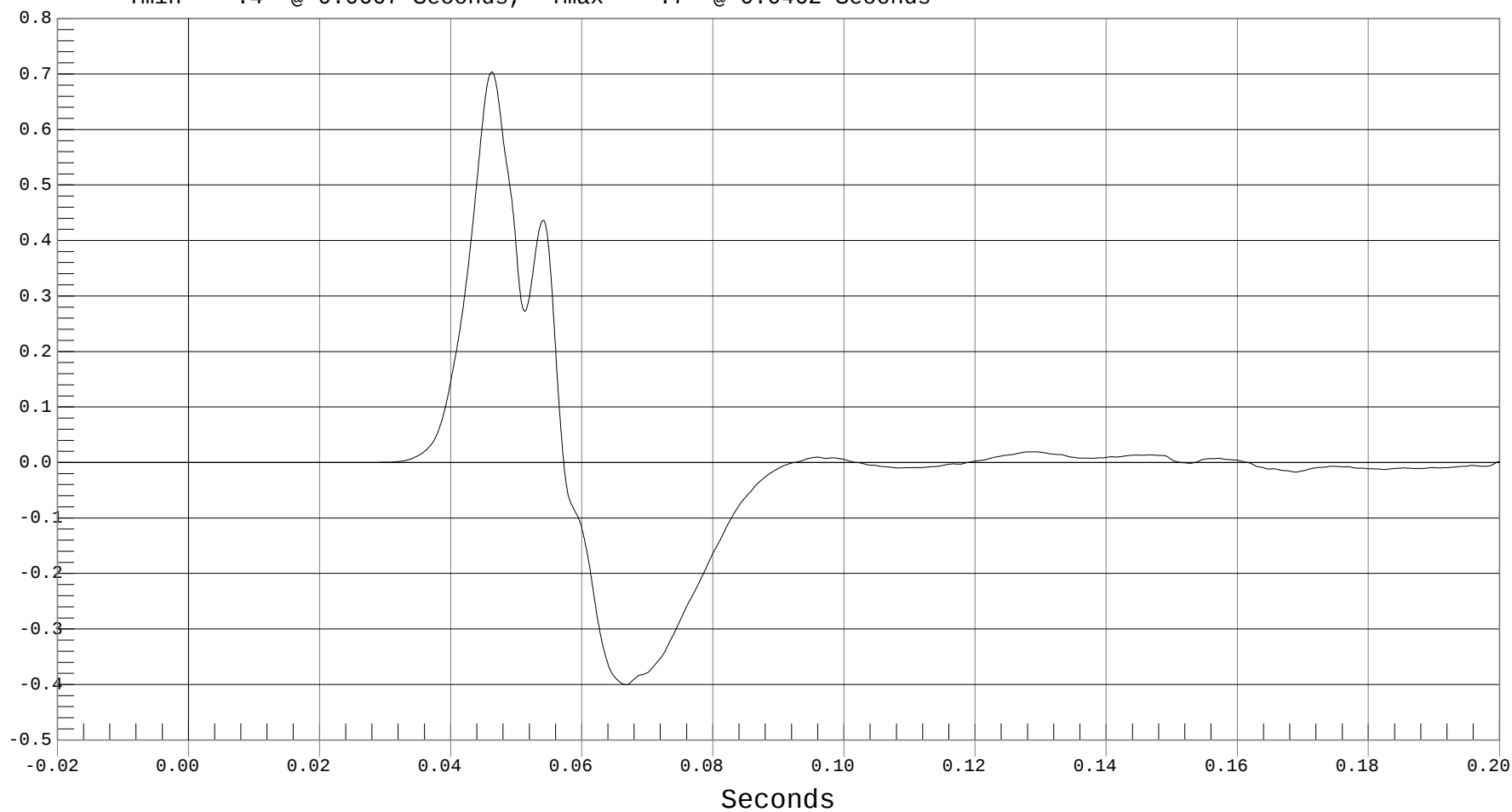
DRIVER UPPER RIB VISCOUS CRITERIA

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 Viscous Criterion, B01071DV.C26

Ymin = -.4 @ 0.0667 Seconds, Ymax = .7 @ 0.0462 Seconds





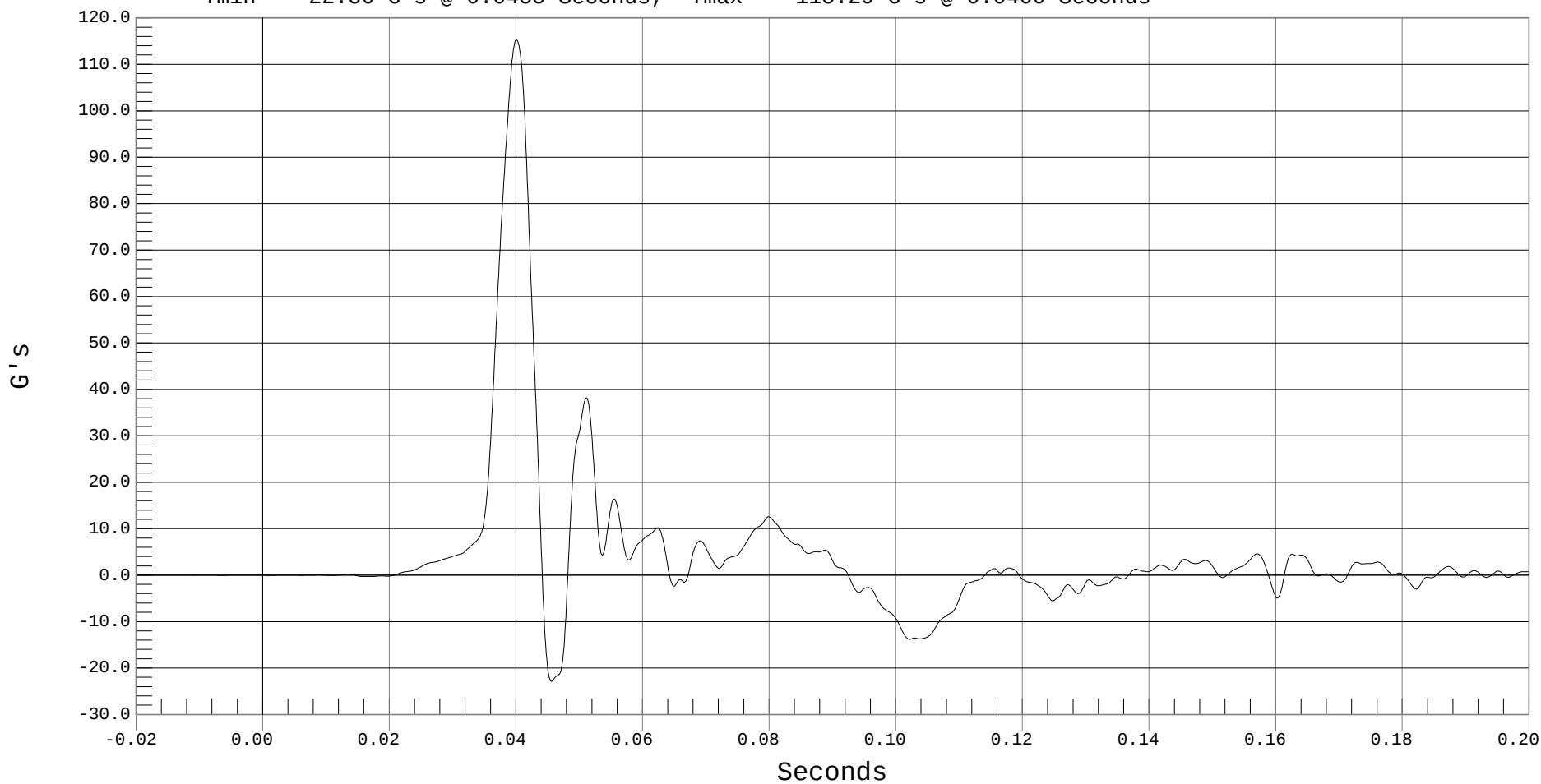
DRIVER MID RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER MID RIB Y, B01071AF.A24

Ymin = -22.86 G's @ 0.0455 Seconds, Ymax = 115.29 G's @ 0.0400 Seconds





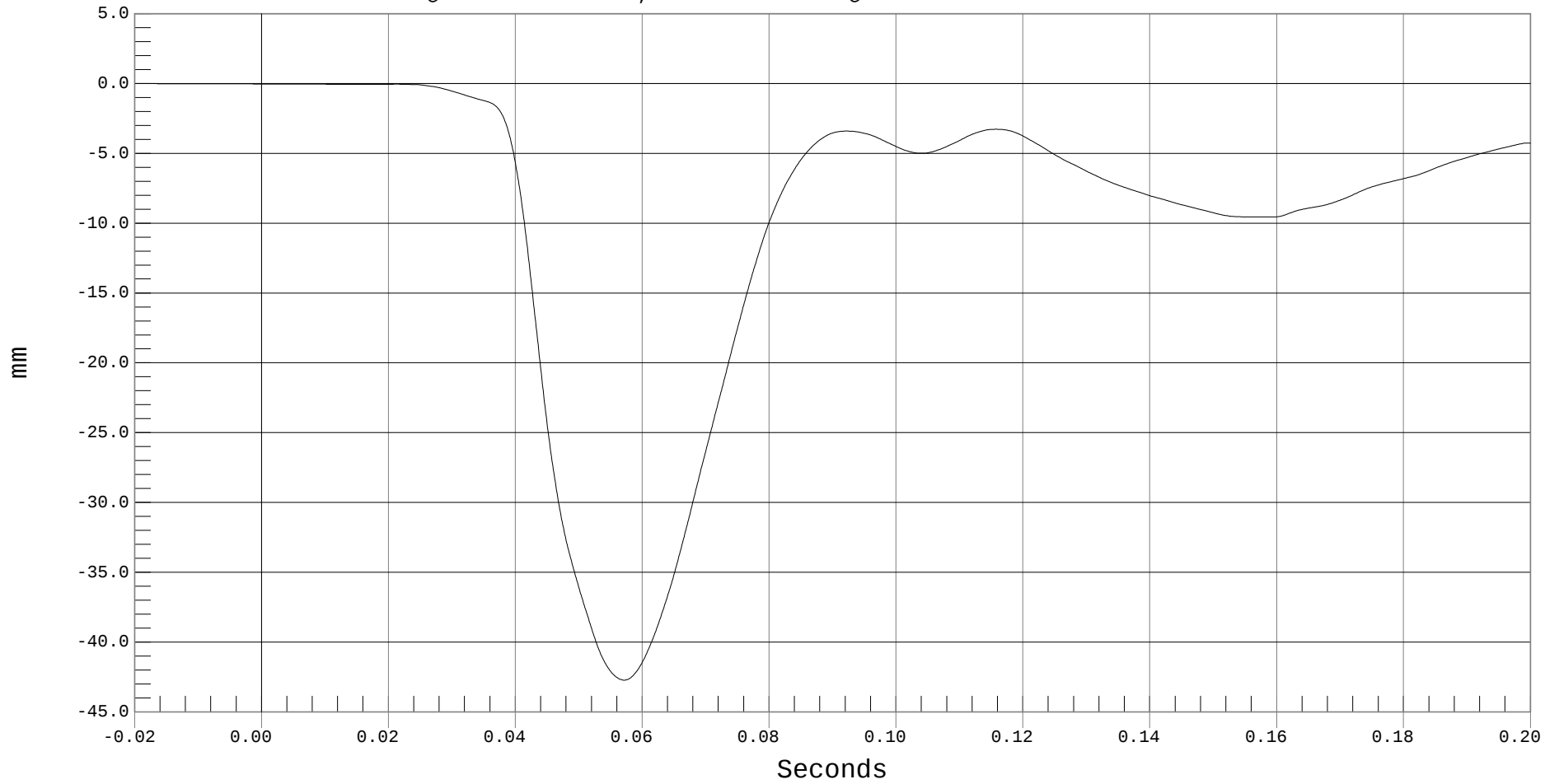
DRIVER MID RIB Y DISPLACEMENT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER MID RIB DISPLACEMENT, B01071DF.D27

Ymin = -42.73 mm @ 0.0571 Seconds, Ymax = 0 mm @ -0.0196 Seconds





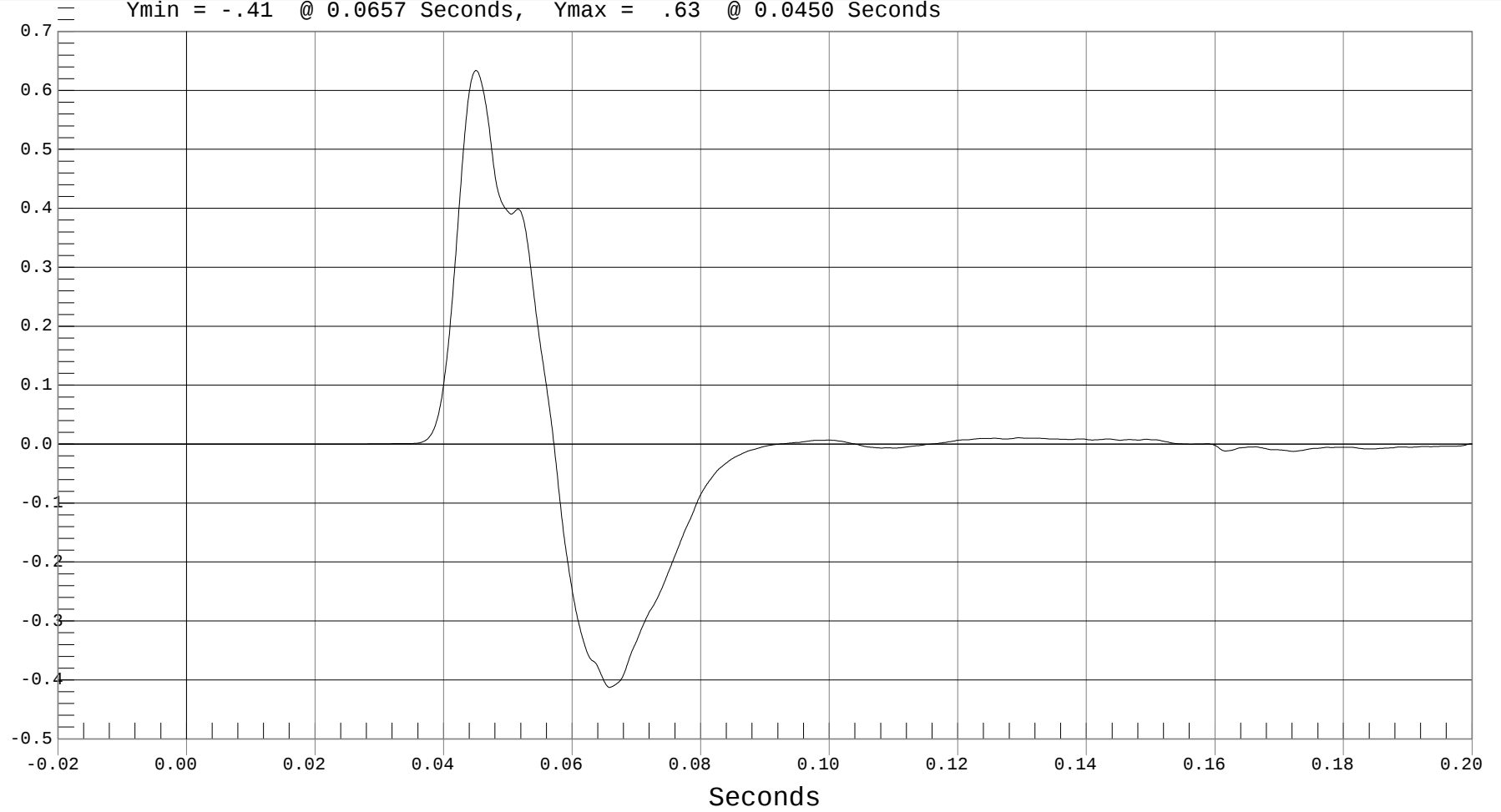
DRIVER MID RIB VISCOUS CRITERIA

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 Viscous Criterion, B01071DV.C27

Ymin = -.41 @ 0.0657 Seconds, Ymax = .63 @ 0.0450 Seconds





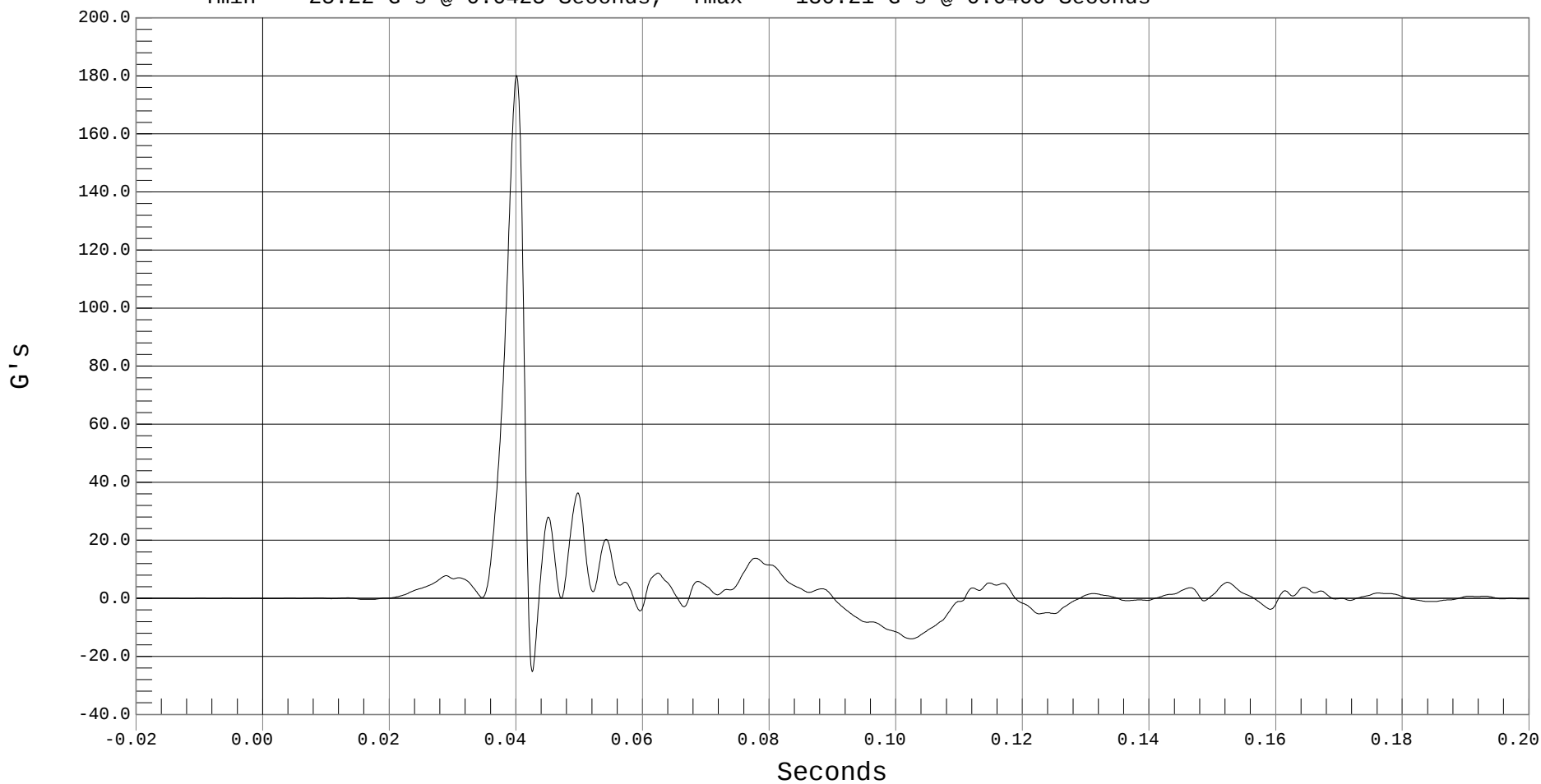
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER RIB Y, B01071AF.A25

Ymin = -25.22 G's @ 0.0425 Seconds, Ymax = 180.21 G's @ 0.0400 Seconds





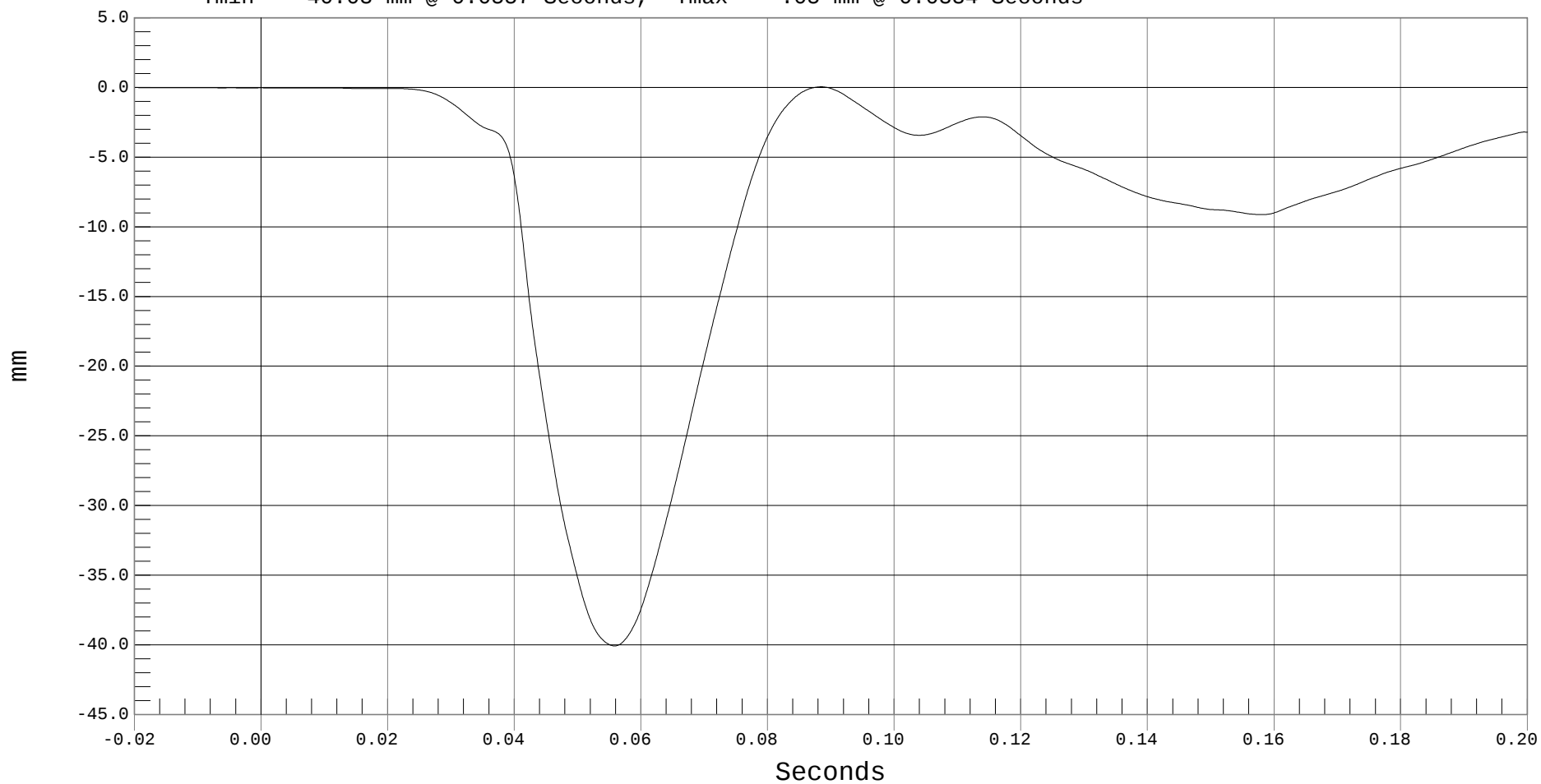
DRIVER LOWER RIB DISPLACEMENT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER RIB DISPLACEMENT, B01071DF.D28

Ymin = -40.08 mm @ 0.0557 Seconds, Ymax = .05 mm @ 0.0884 Seconds





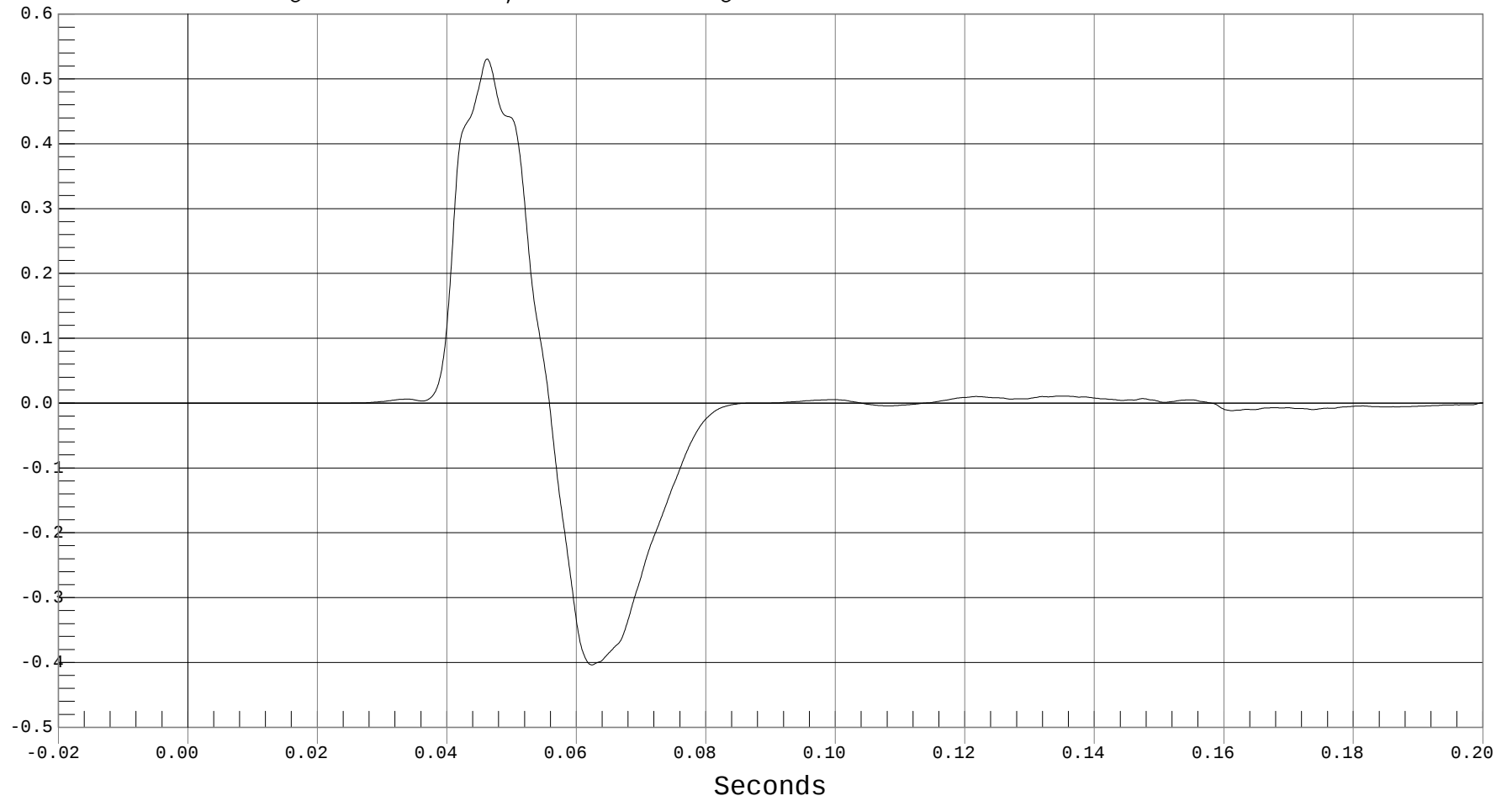
DRIVER LOWER RIB VISCOUS CRITERIA

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 Viscous Criterion, B01071DV.C28

Ymin = -.4 @ 0.0623 Seconds, Ymax = .53 @ 0.0461 Seconds





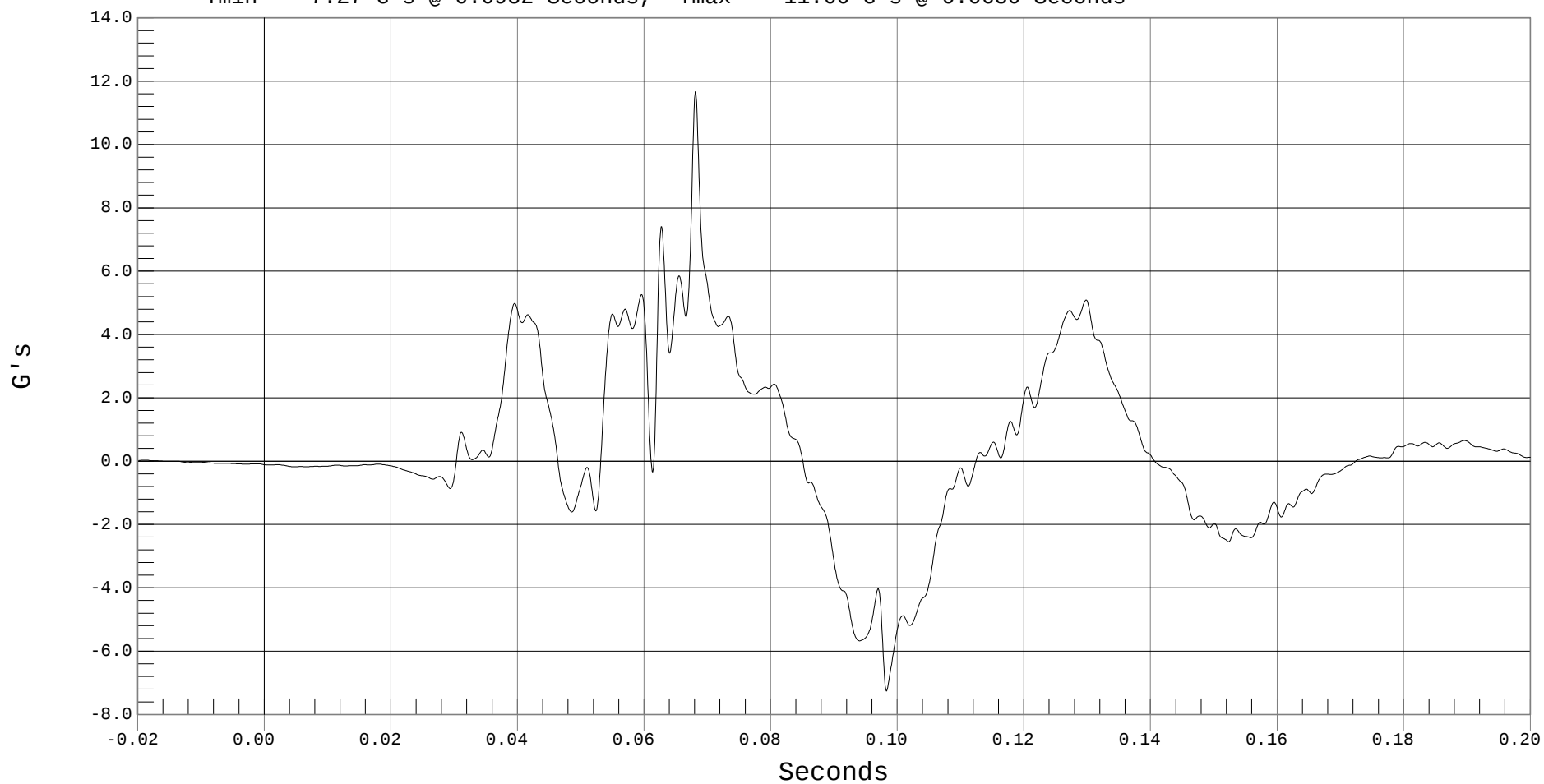
LOWER SPINE X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE X, B01071AF.A29

Ymin = -7.27 G's @ 0.0982 Seconds, Ymax = 11.66 G's @ 0.0680 Seconds





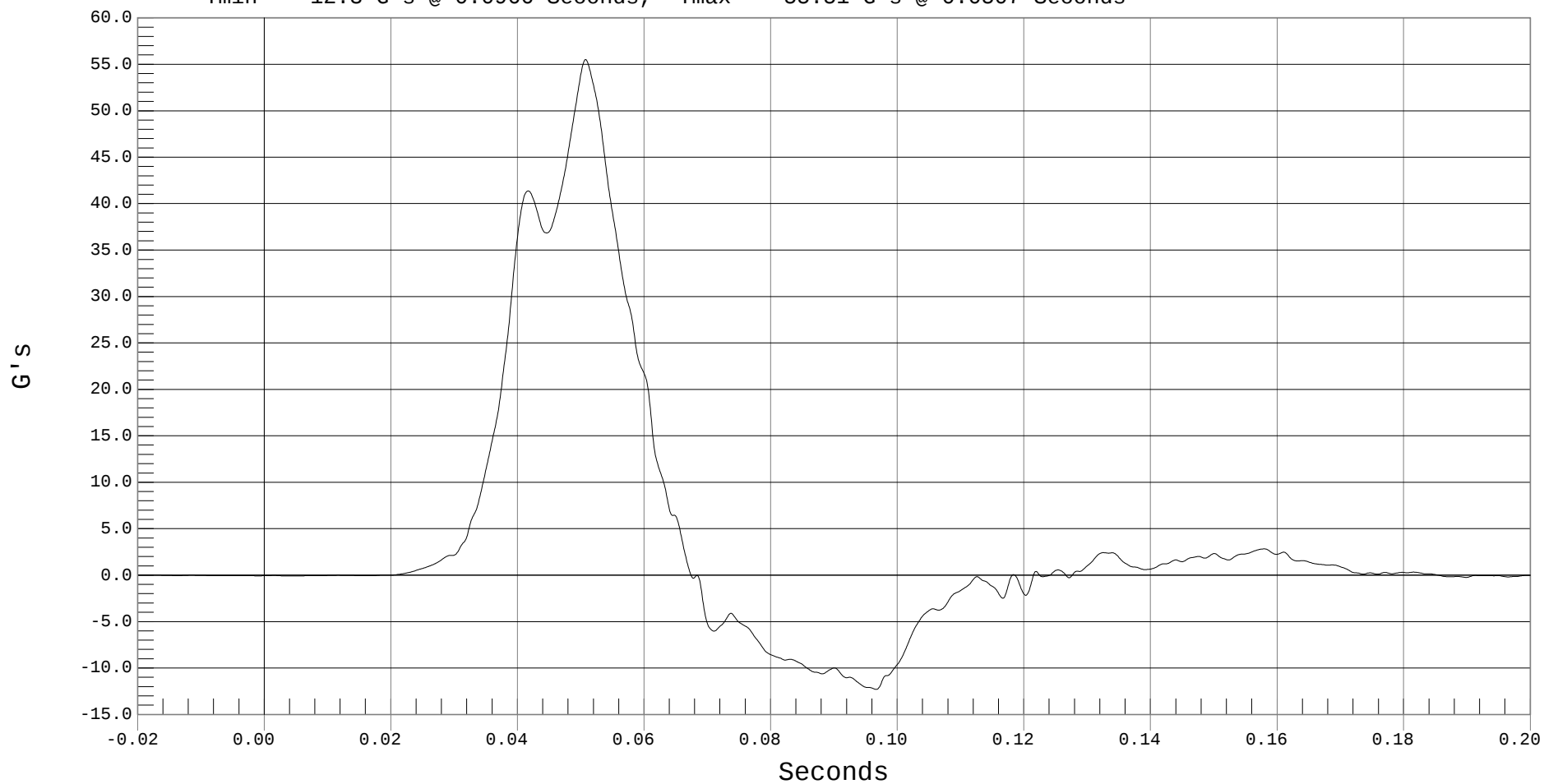
LOWER SPINE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE Y, B01071AF.A30

Ymin = -12.3 G's @ 0.0966 Seconds, Ymax = 55.51 G's @ 0.0507 Seconds





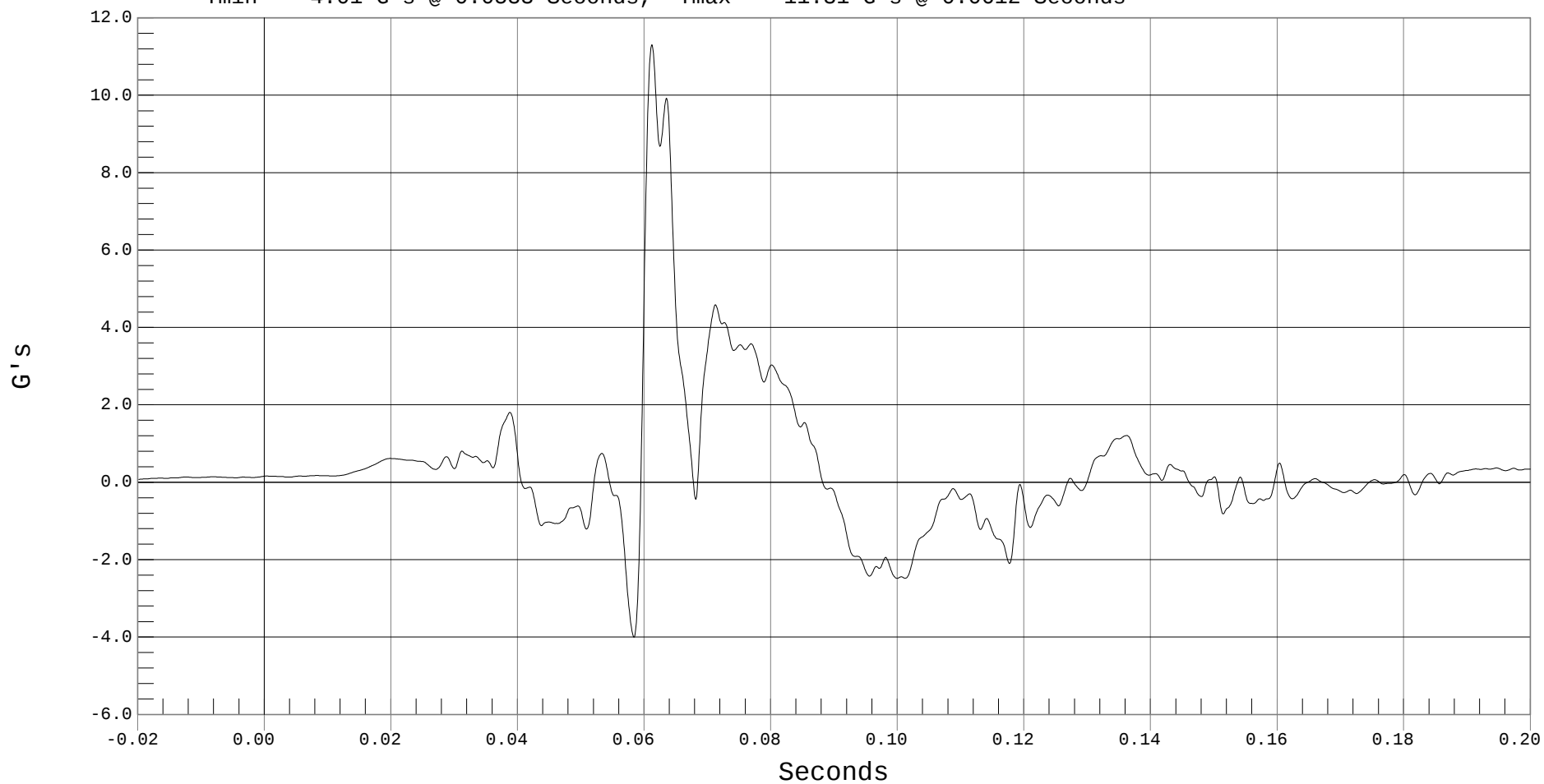
LOWER SPINE Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE Z, B01071AF.A31

Ymin = -4.01 G's @ 0.0583 Seconds, Ymax = 11.31 G's @ 0.0612 Seconds





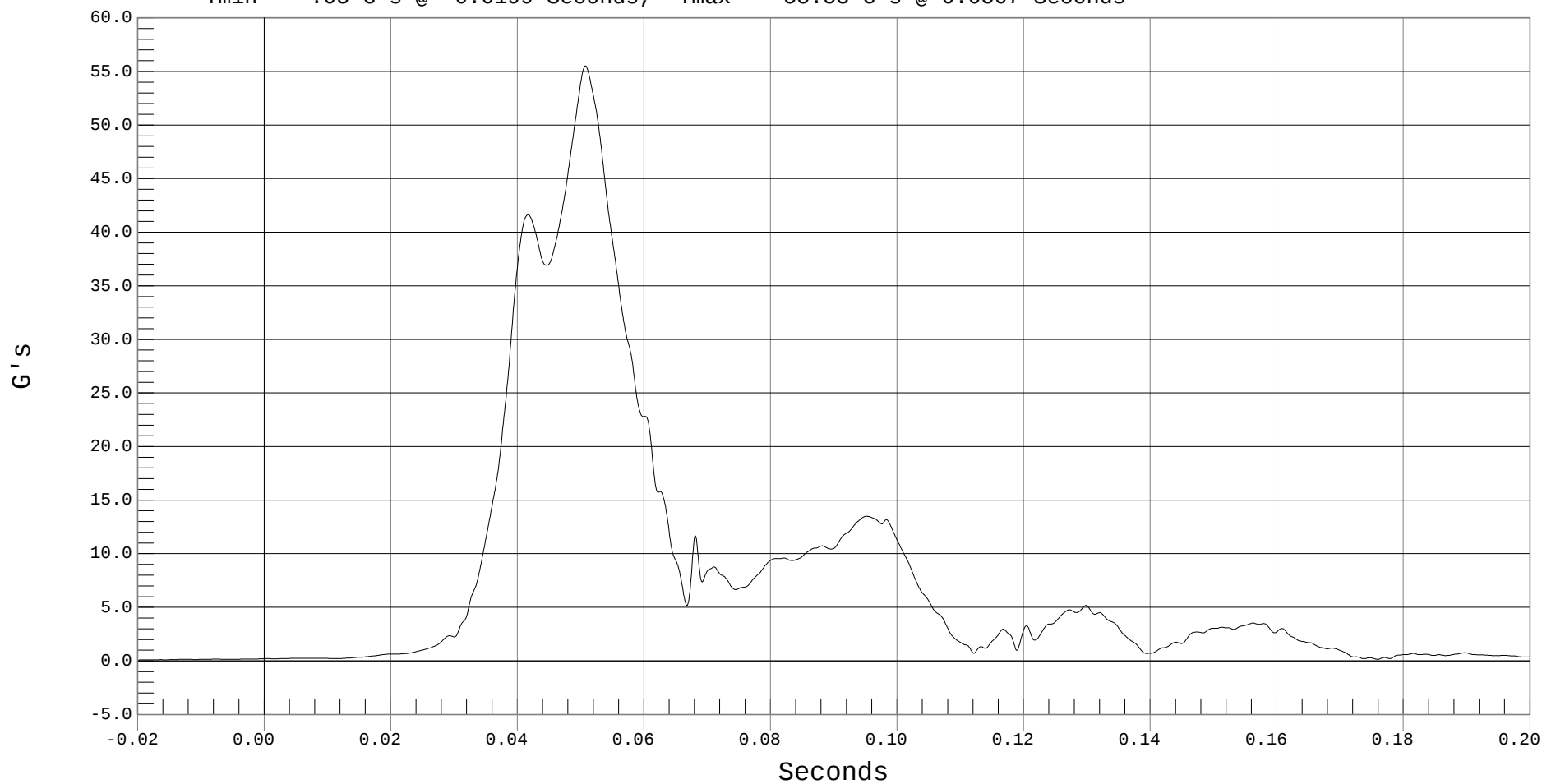
LOWER SPINE RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 DRIVER LOWER SPINE RESULTANT, B01071AV.A29

Ymin = .08 G's @ -0.0199 Seconds, Ymax = 55.53 G's @ 0.0507 Seconds





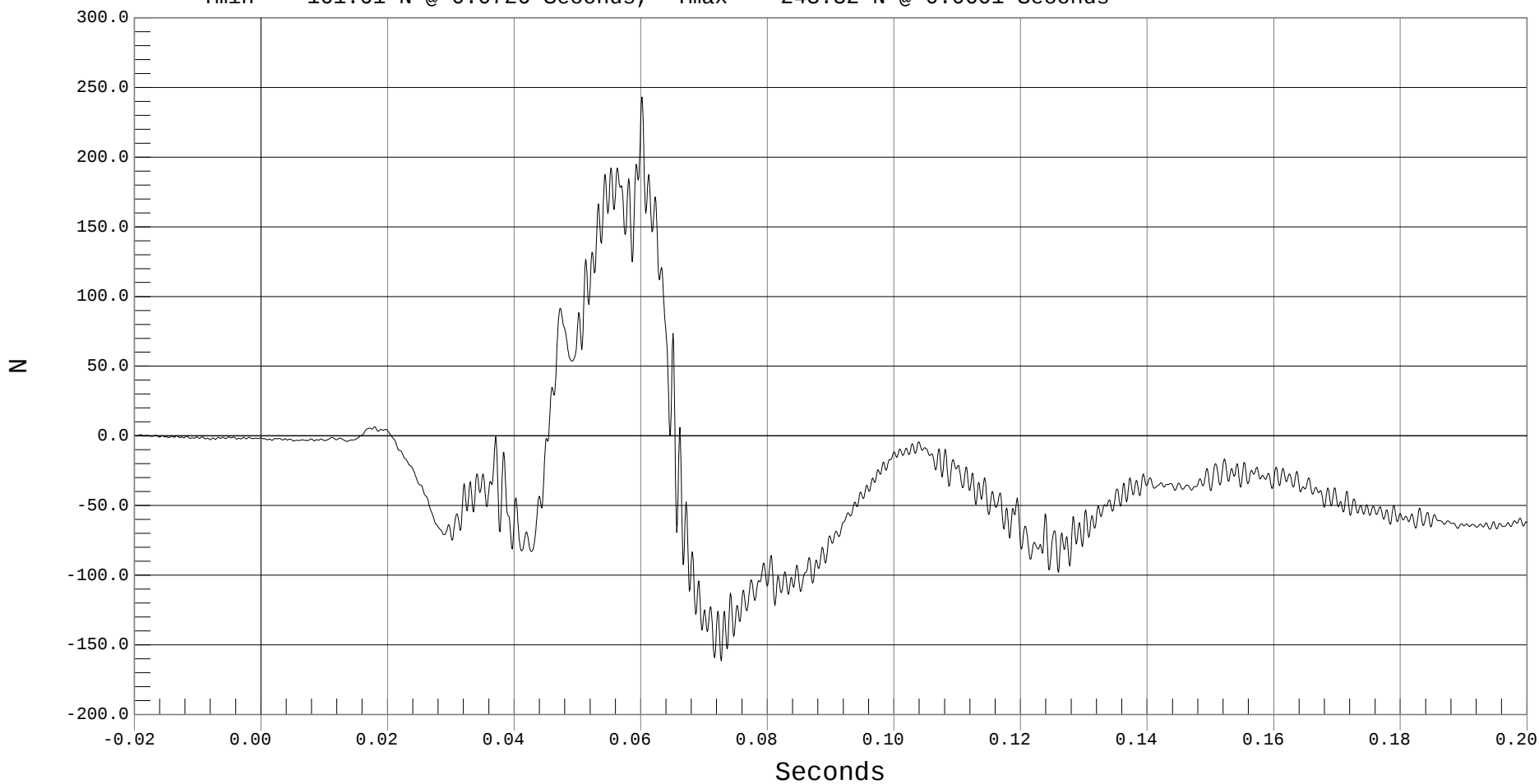
DRIVER TORSO FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER TORSO FORCE X, B01071FF.F33

Ymin = -161.61 N @ 0.0726 Seconds, Ymax = 243.32 N @ 0.0601 Seconds





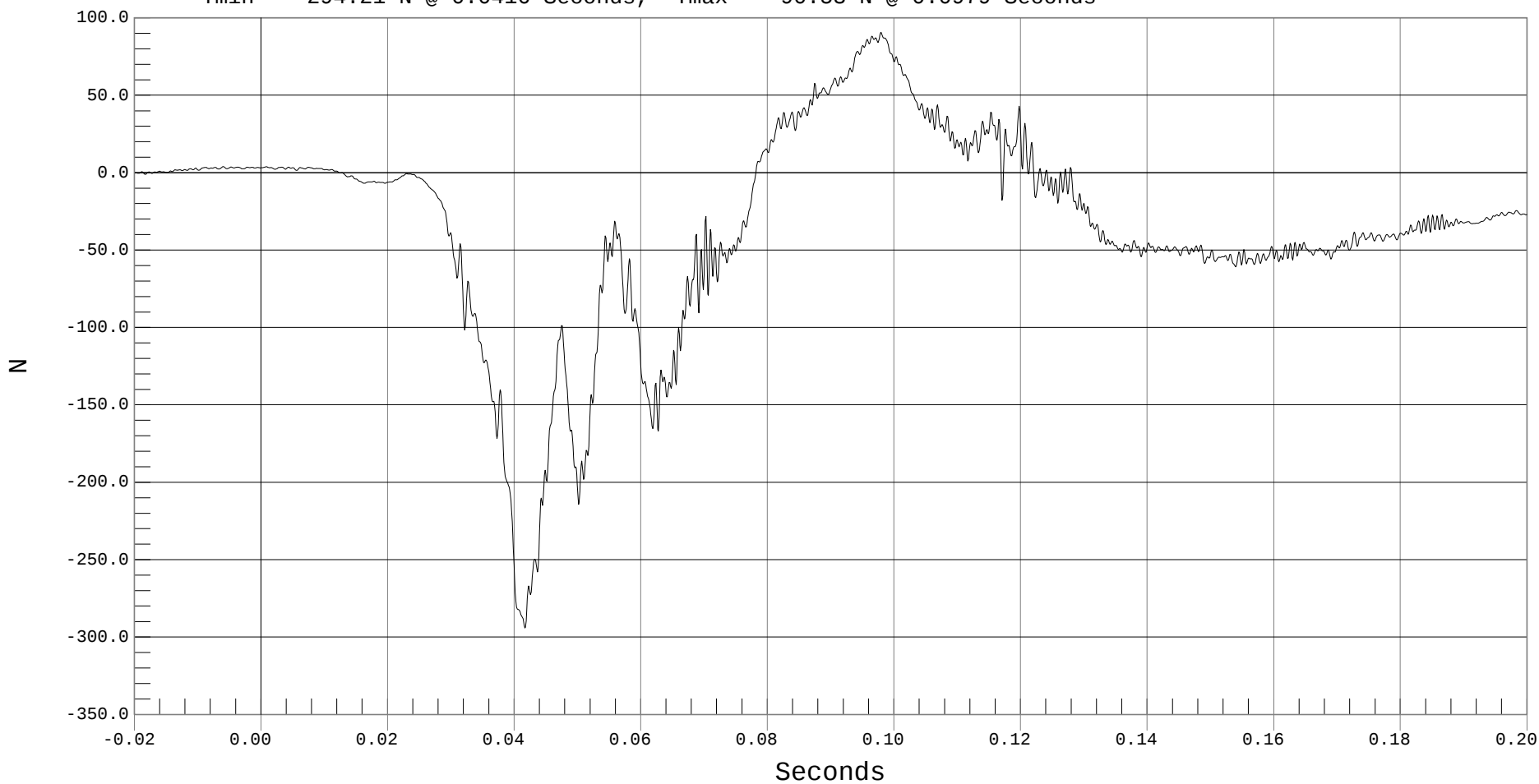
DRIVER TORSO FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER TORSO FORCE Y, B01071FF.F34

Ymin = -294.21 N @ 0.0416 Seconds, Ymax = 90.53 N @ 0.0979 Seconds





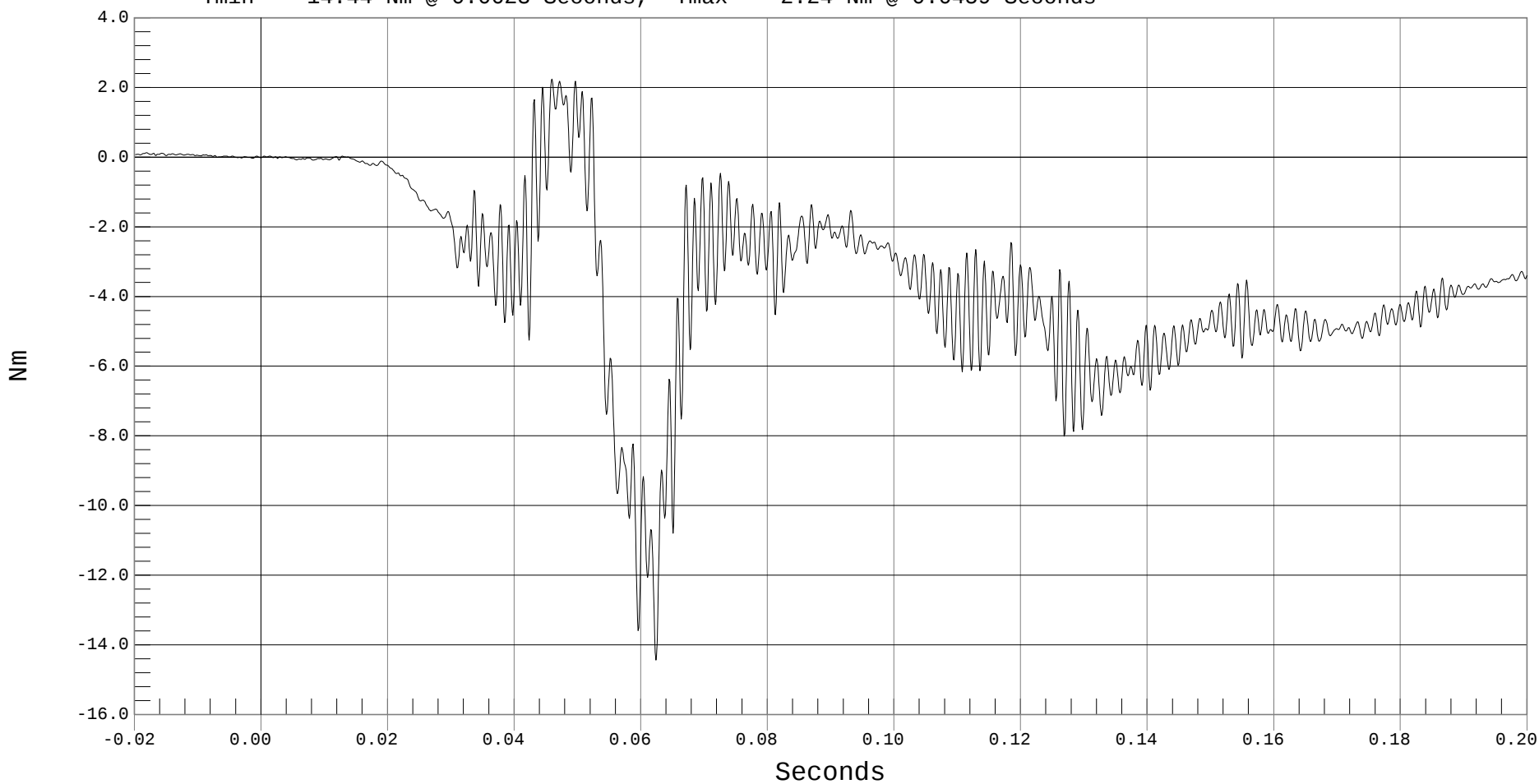
DRIVER TORSO MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER TORSO MOMENT Y, B01071MF.M35

Ymin = -14.44 Nm @ 0.0623 Seconds, Ymax = 2.24 Nm @ 0.0459 Seconds





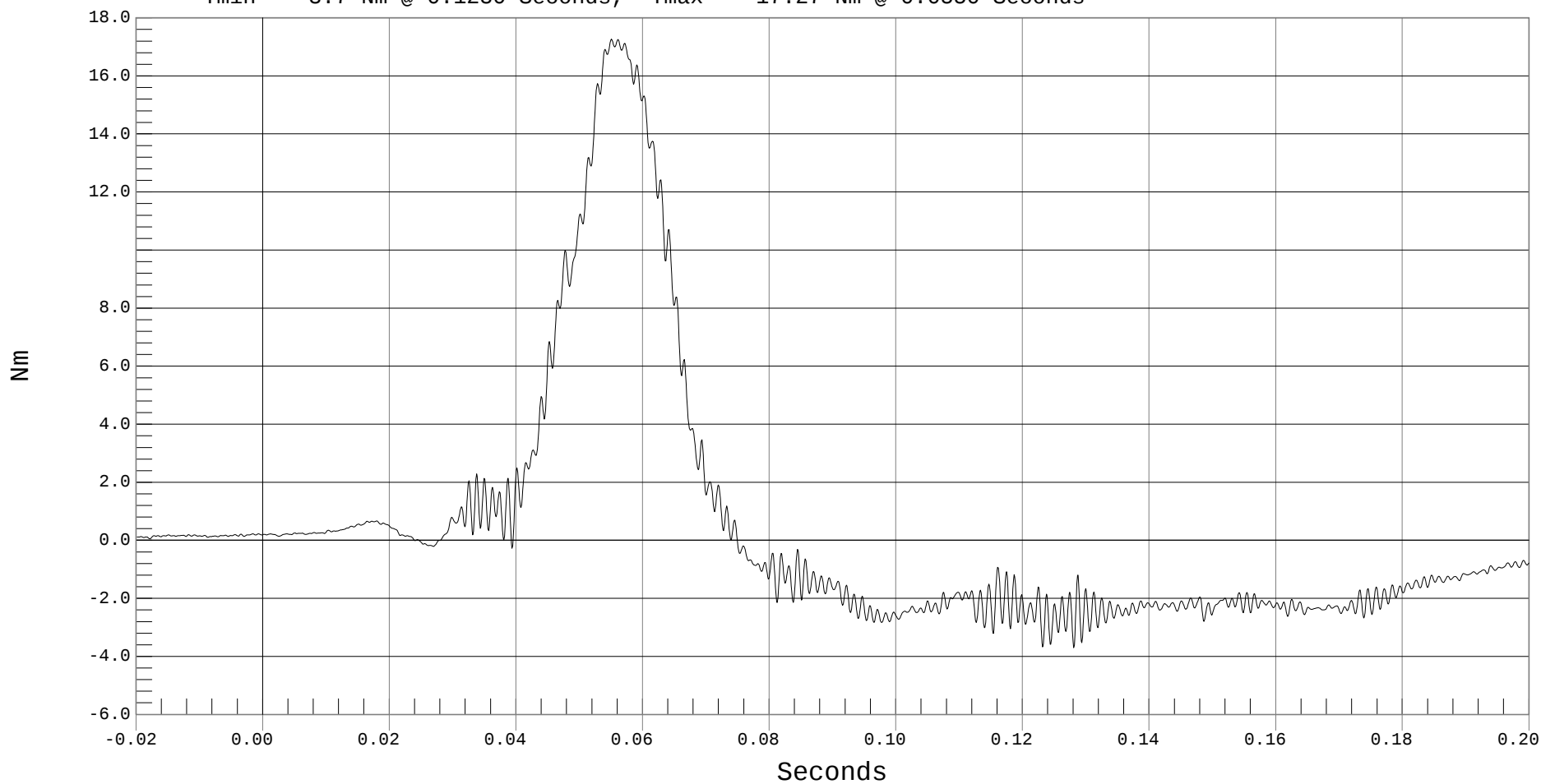
DRIVER TORSO MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER TORSO MOMENT Z, B01071MF.M36

Ymin = -3.7 Nm @ 0.1280 Seconds, Ymax = 17.27 Nm @ 0.0550 Seconds





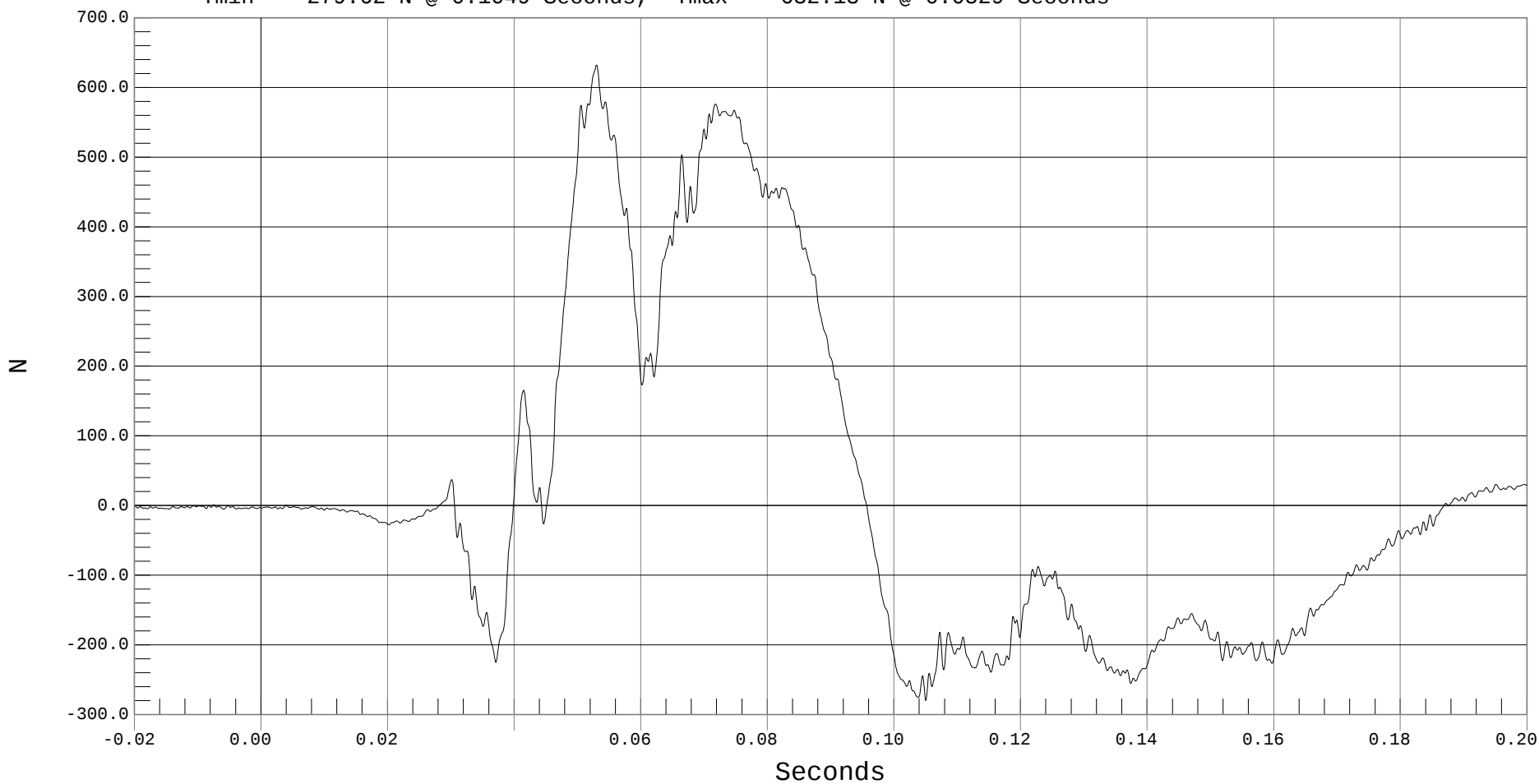
DRIVER T-12 FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER T-12 FORCE X, B01071FF.F37

Ymin = -279.62 N @ 0.1049 Seconds, Ymax = 632.13 N @ 0.0529 Seconds





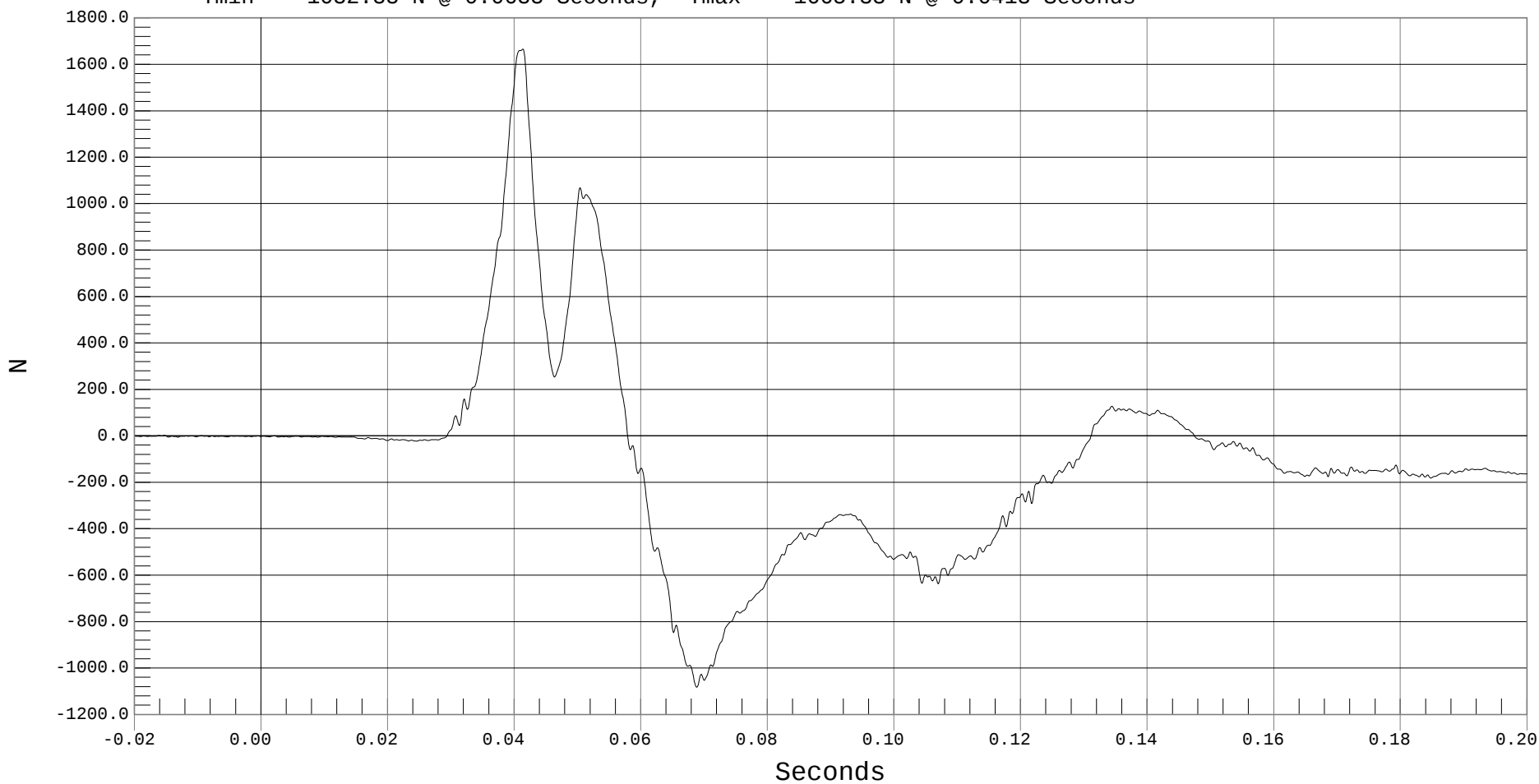
DRIVER T-12 FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER T-12 FORCE Y, B01071FF.F38

Ymin = -1082.88 N @ 0.0688 Seconds, Ymax = 1665.33 N @ 0.0413 Seconds





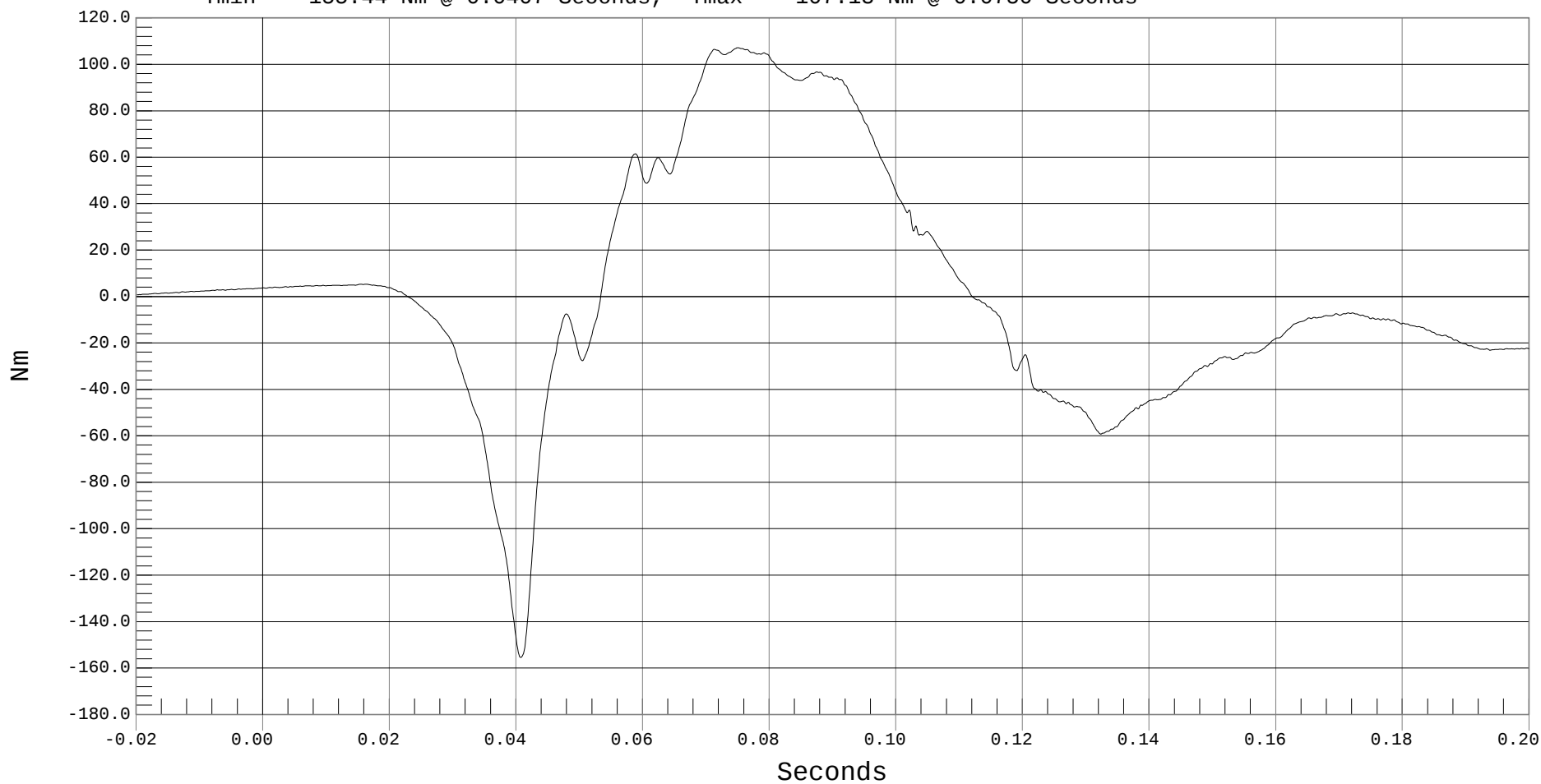
DRIVER T-12 MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER T-12 MOMENT X, B01071MF.M39

Ymin = -155.44 Nm @ 0.0407 Seconds, Ymax = 107.18 Nm @ 0.0750 Seconds





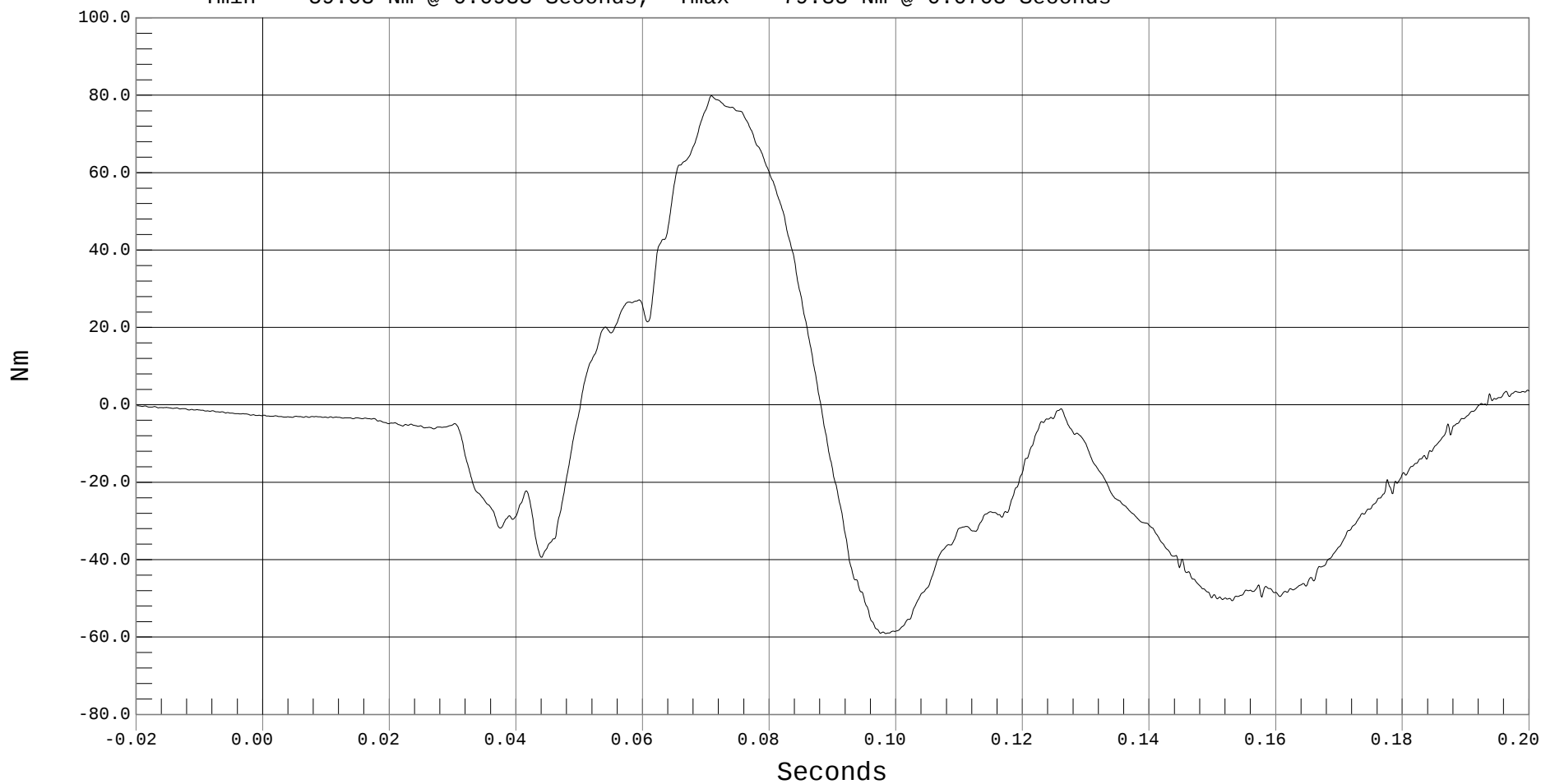
DRIVER T-12 MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER T-12 MOMENT Y, B01071MF.M40

Ymin = -59.08 Nm @ 0.0983 Seconds, Ymax = 79.88 Nm @ 0.0708 Seconds





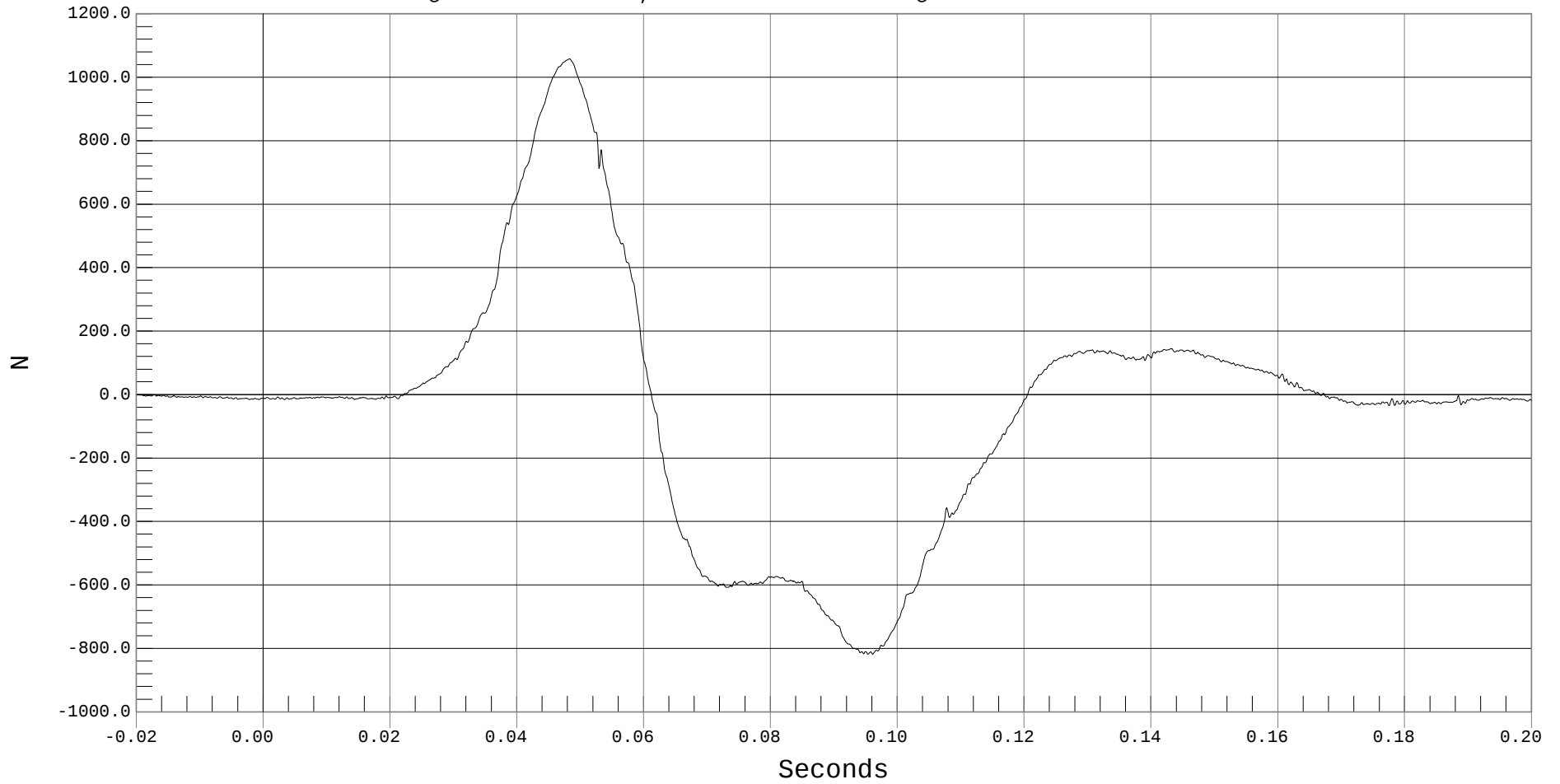
DRIVER LUMBAR FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LUMBAR FORCE Y, B01071FT.F56

Ymin = -818.61 N @ 0.0953 Seconds, Ymax = 1058.45 N @ 0.0482 Seconds





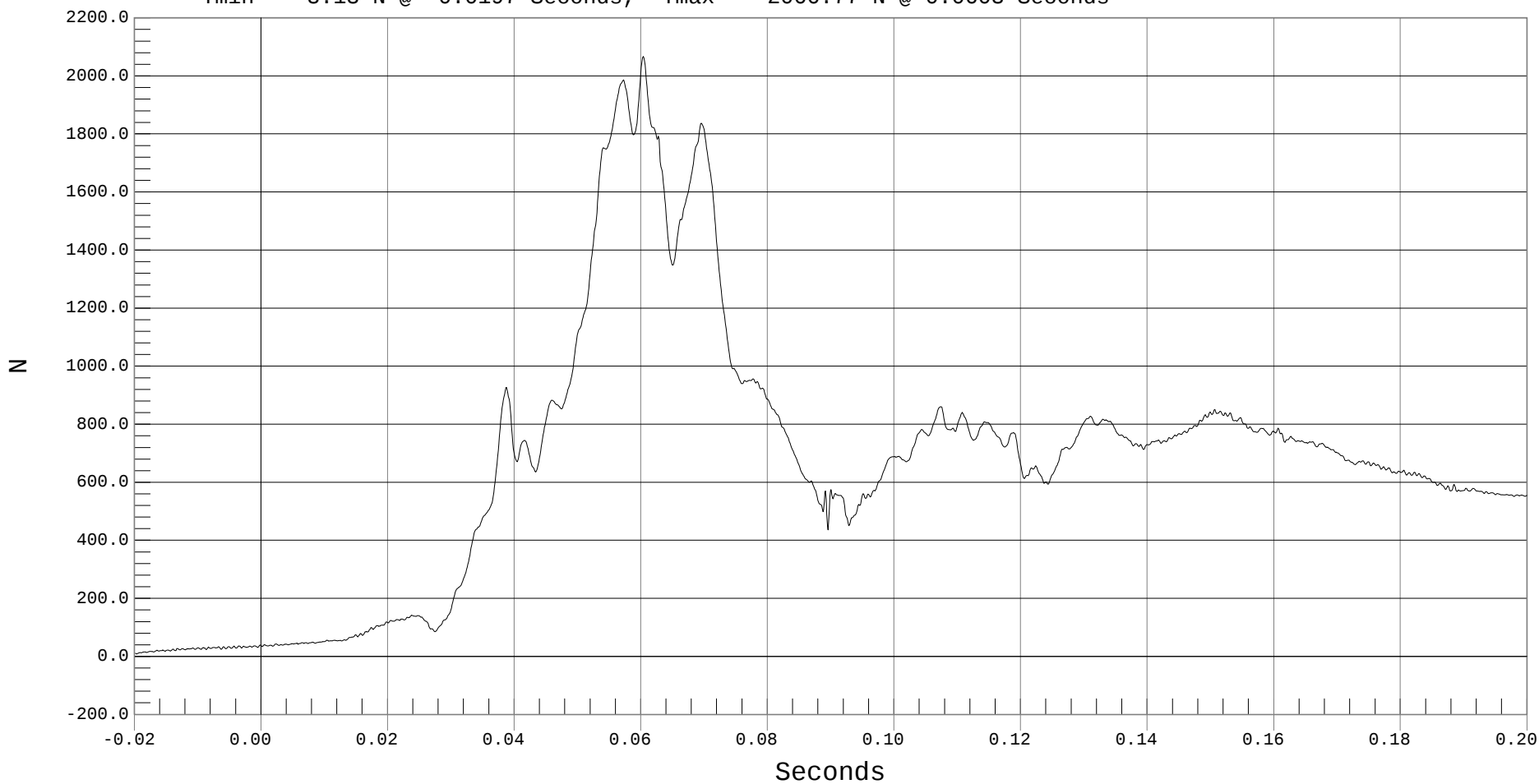
DRIVER LUMBAR FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LUMBAR FORCE Z, B01071FT.F57

Ymin = 8.13 N @ -0.0197 Seconds, Ymax = 2066.77 N @ 0.0603 Seconds





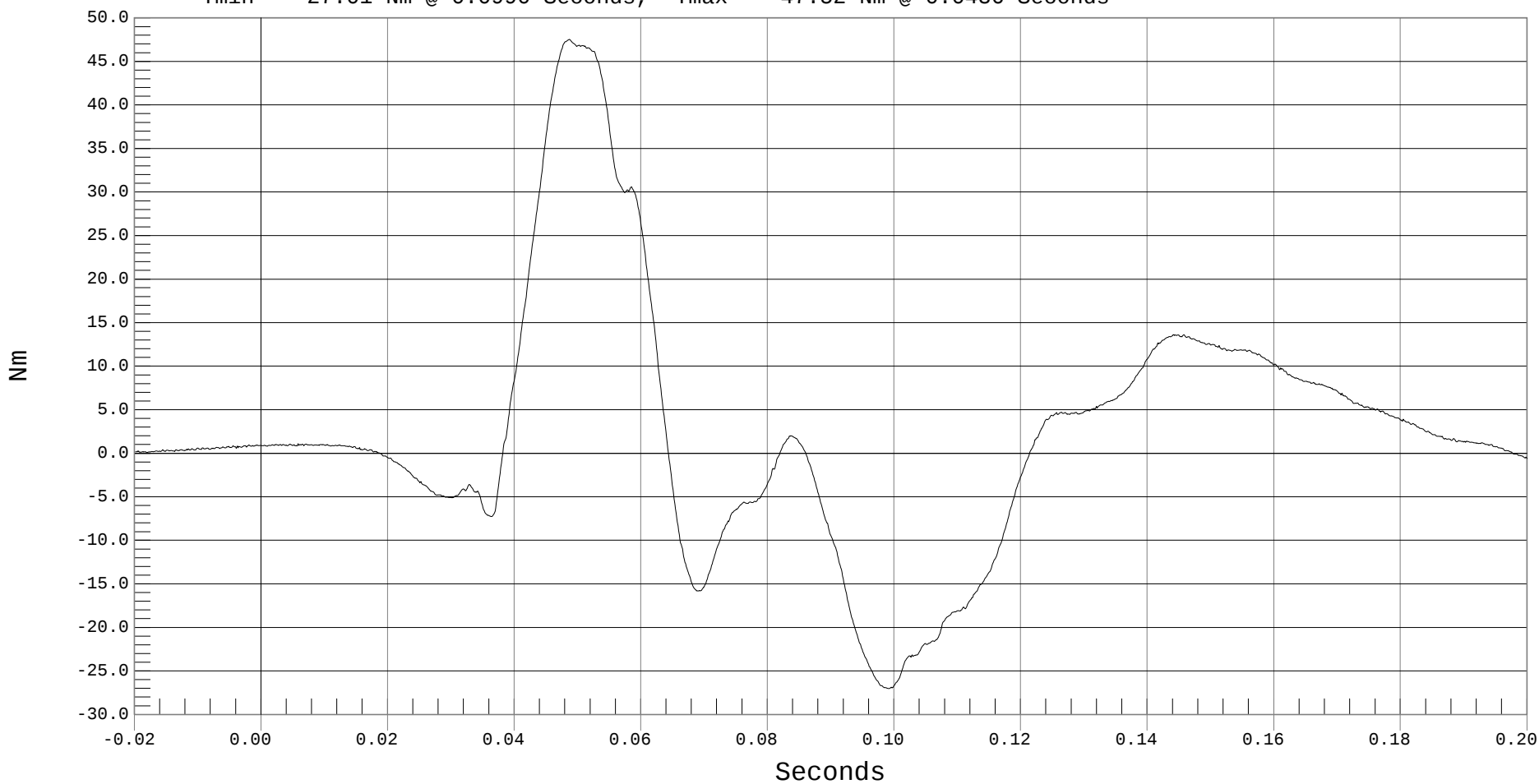
DRIVER LUMBAR MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER LUMBAR MOMENT X, B01071MT.M58

Ymin = -27.01 Nm @ 0.0990 Seconds, Ymax = 47.52 Nm @ 0.0486 Seconds





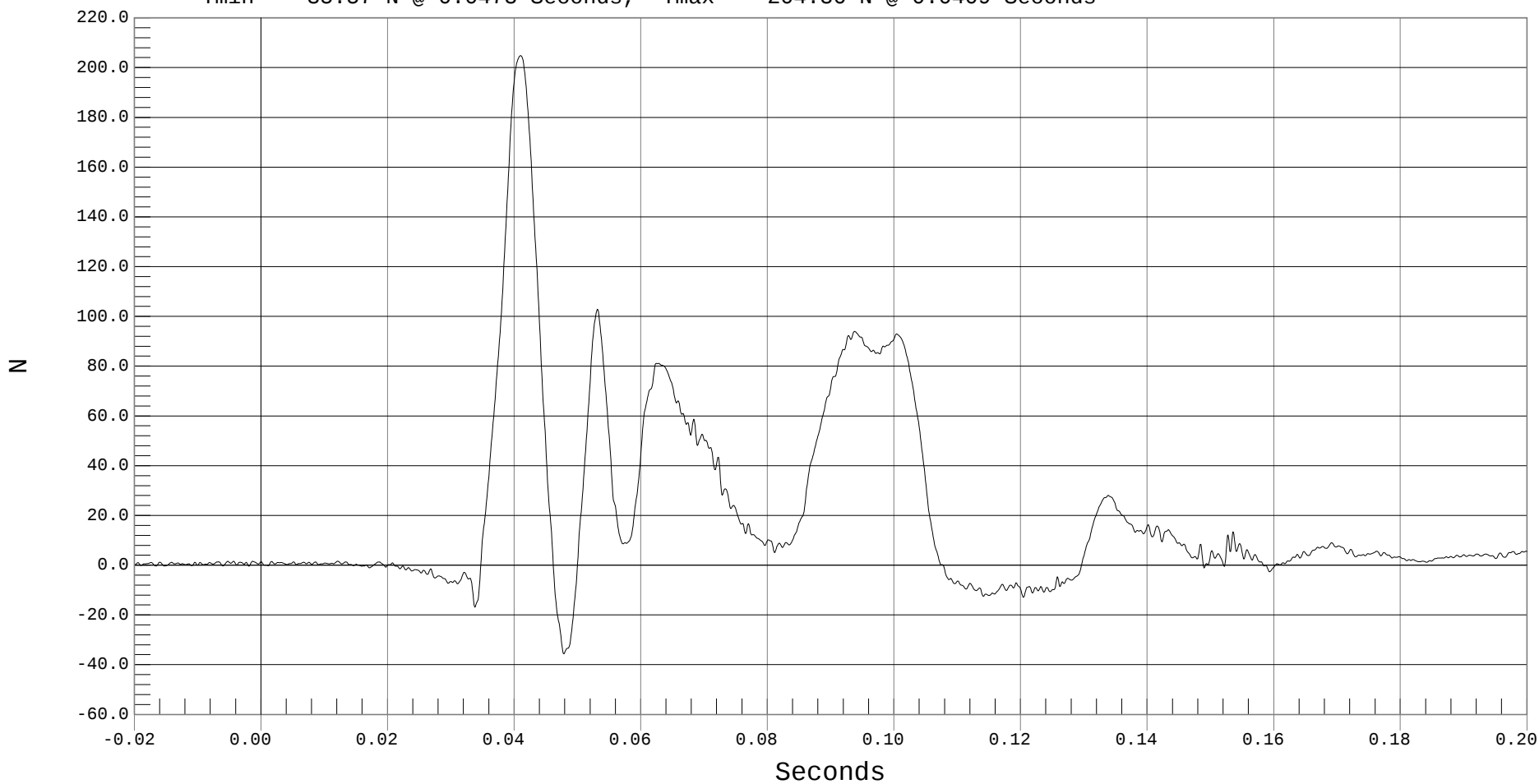
DRIVER ABDOMEN FRONT FORCE

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER FRONT ABDOMEN FORCE, B01071FF.F41

Ymin = -35.57 N @ 0.0478 Seconds, Ymax = 204.86 N @ 0.0409 Seconds





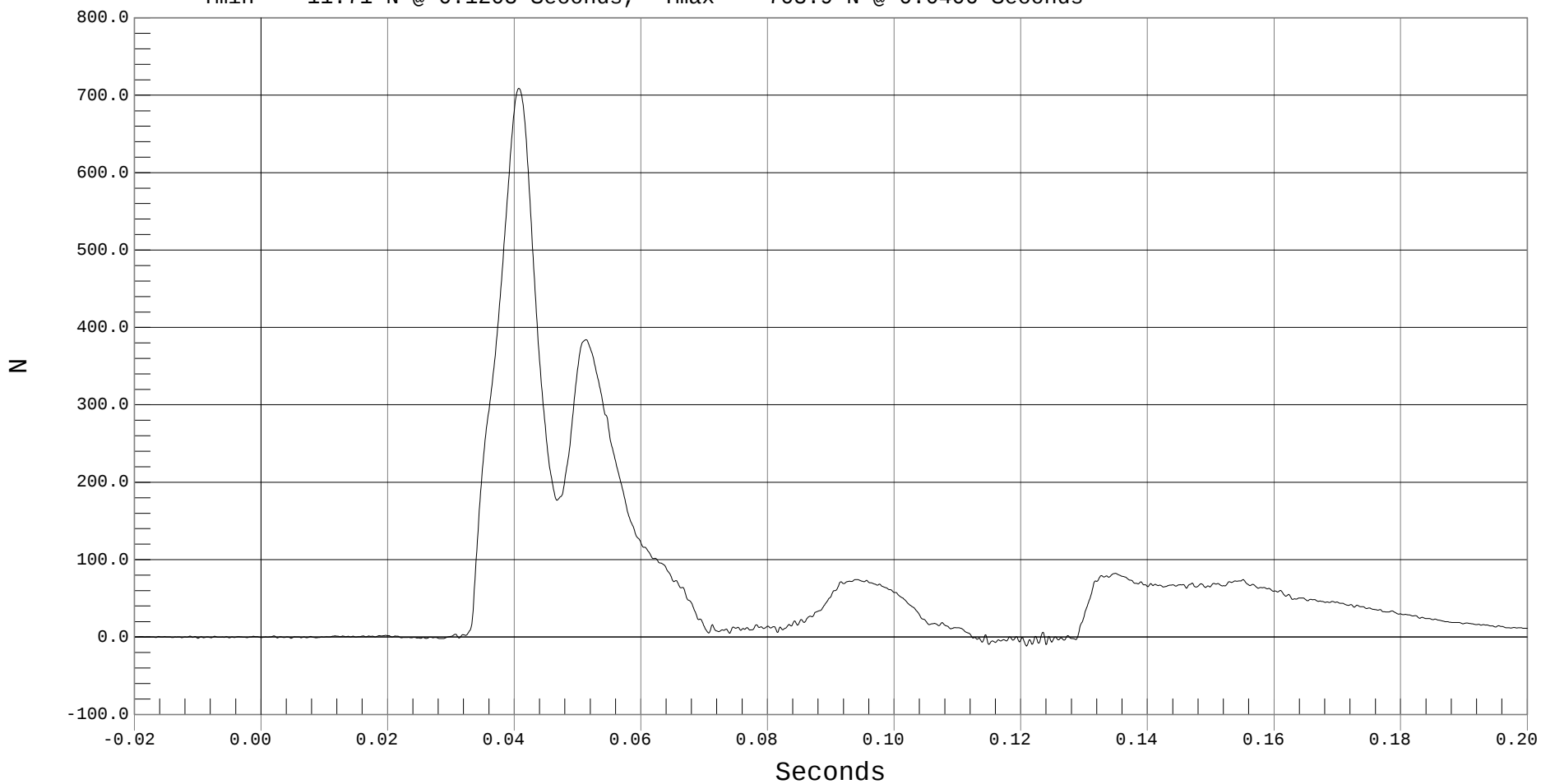
DRIVER ABDOMEN MID FORCE

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER MID ABDOMEN FORCE, B01071FF.F42

Ymin = -11.71 N @ 0.1208 Seconds, Ymax = 708.9 N @ 0.0406 Seconds





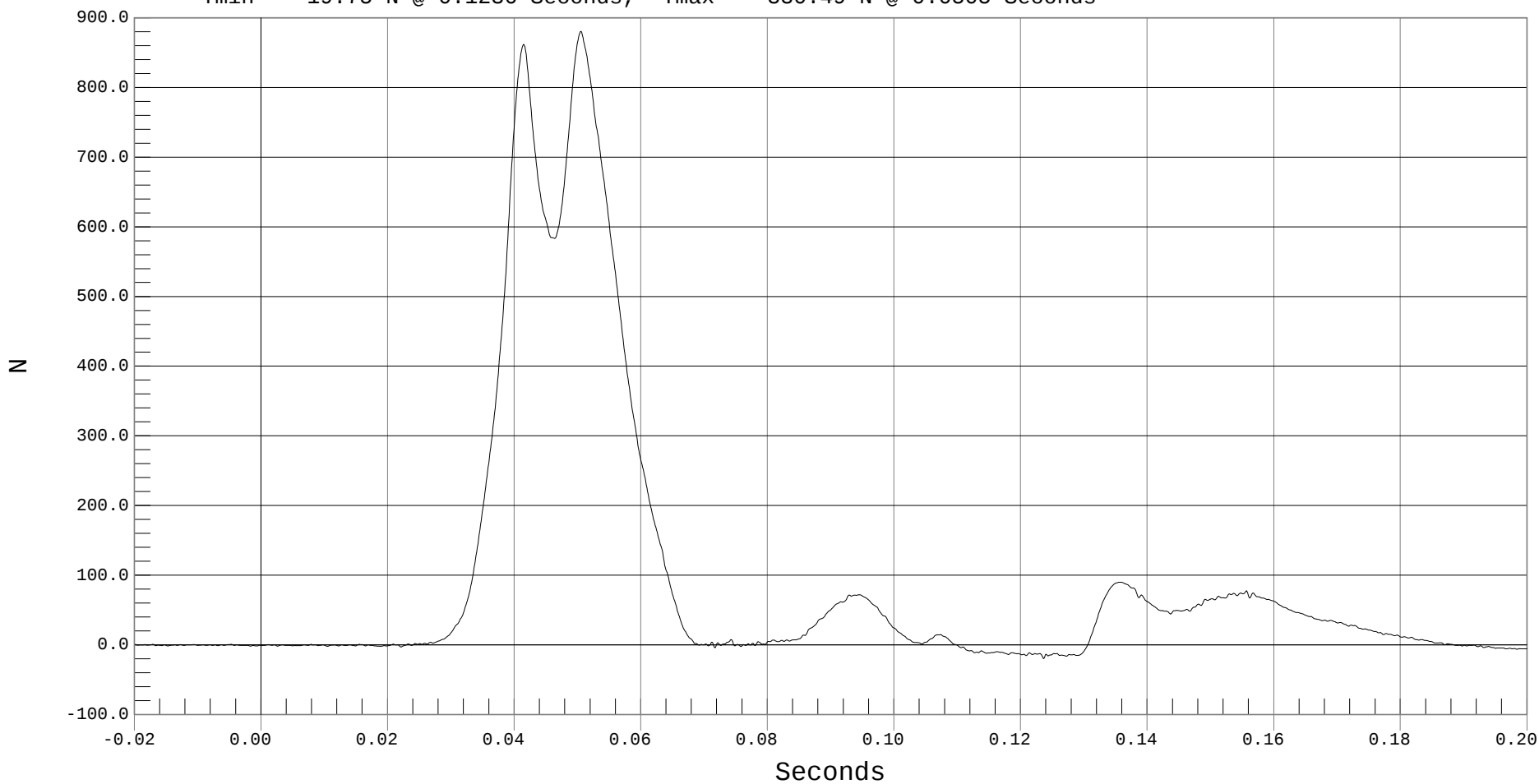
DRIVER ABDOMEN REAR FORCE

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER REAR ABDOMEN FORCE, B01071FF.F43

Ymin = -19.75 N @ 0.1236 Seconds, Ymax = 880.49 N @ 0.0505 Seconds





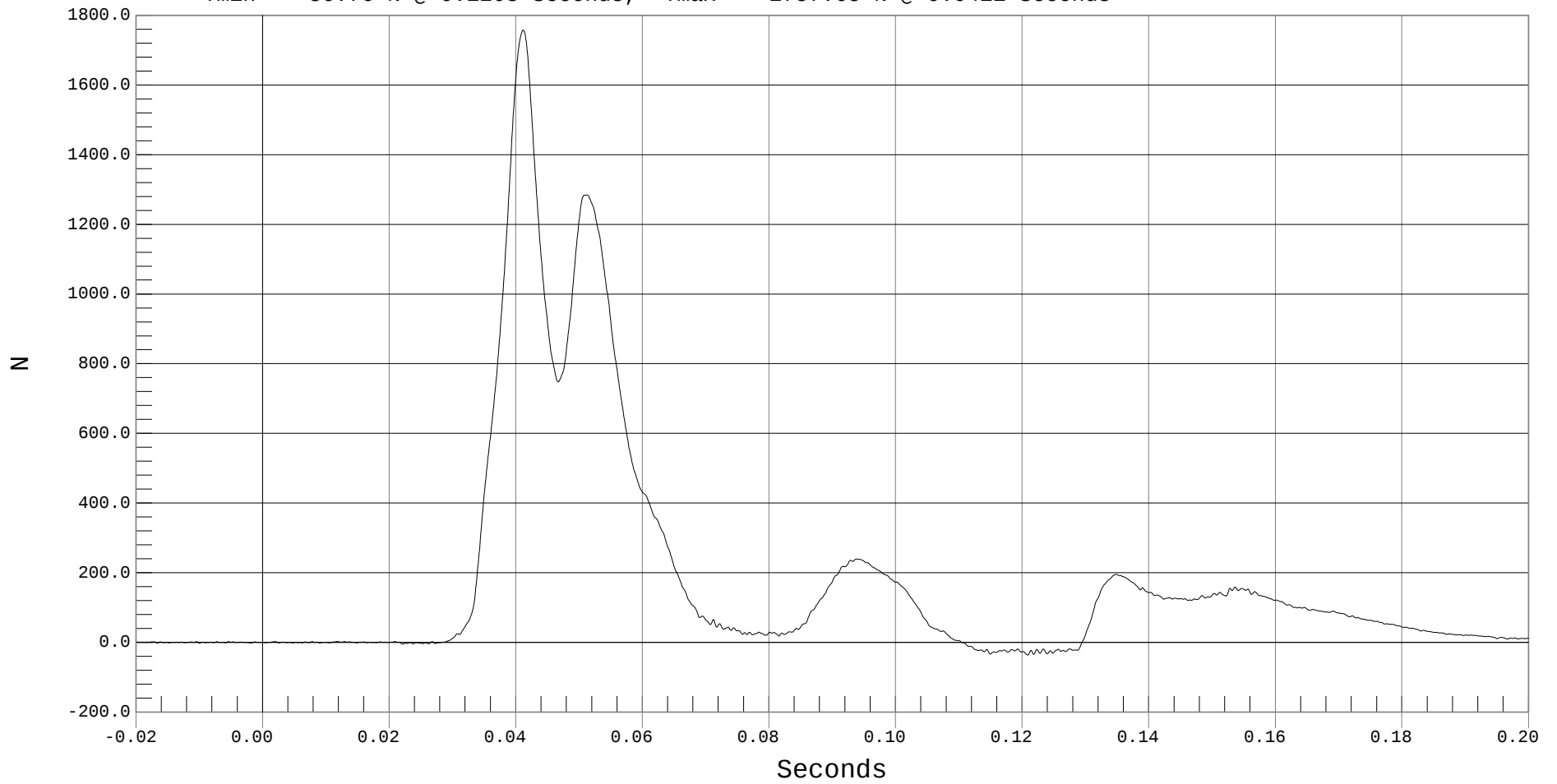
DRIVER SUMMED ABDOMEN FORCE

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER SUMMED ABDOMEN FORCE, B01071FU.F41

Ymin = -36.76 N @ 0.1208 Seconds, Ymax = 1757.65 N @ 0.0411 Seconds





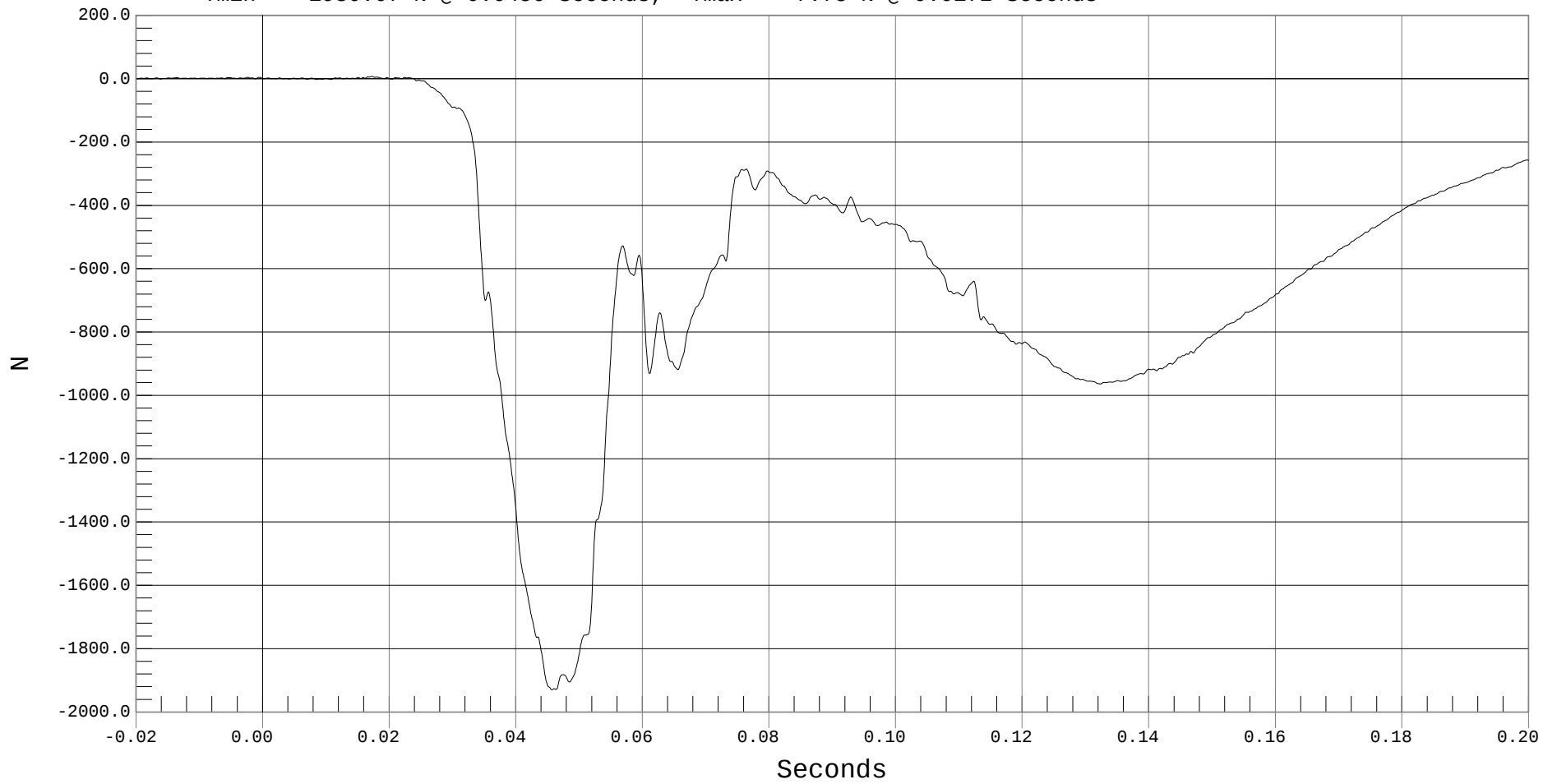
DRIVER PUBIC SYMPHYSIS FORCE

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER PUBIC SYMPHYSIS FORCE, B01071FF.F44

Ymin = -1930.07 N @ 0.0456 Seconds, Ymax = 7.75 N @ 0.0172 Seconds





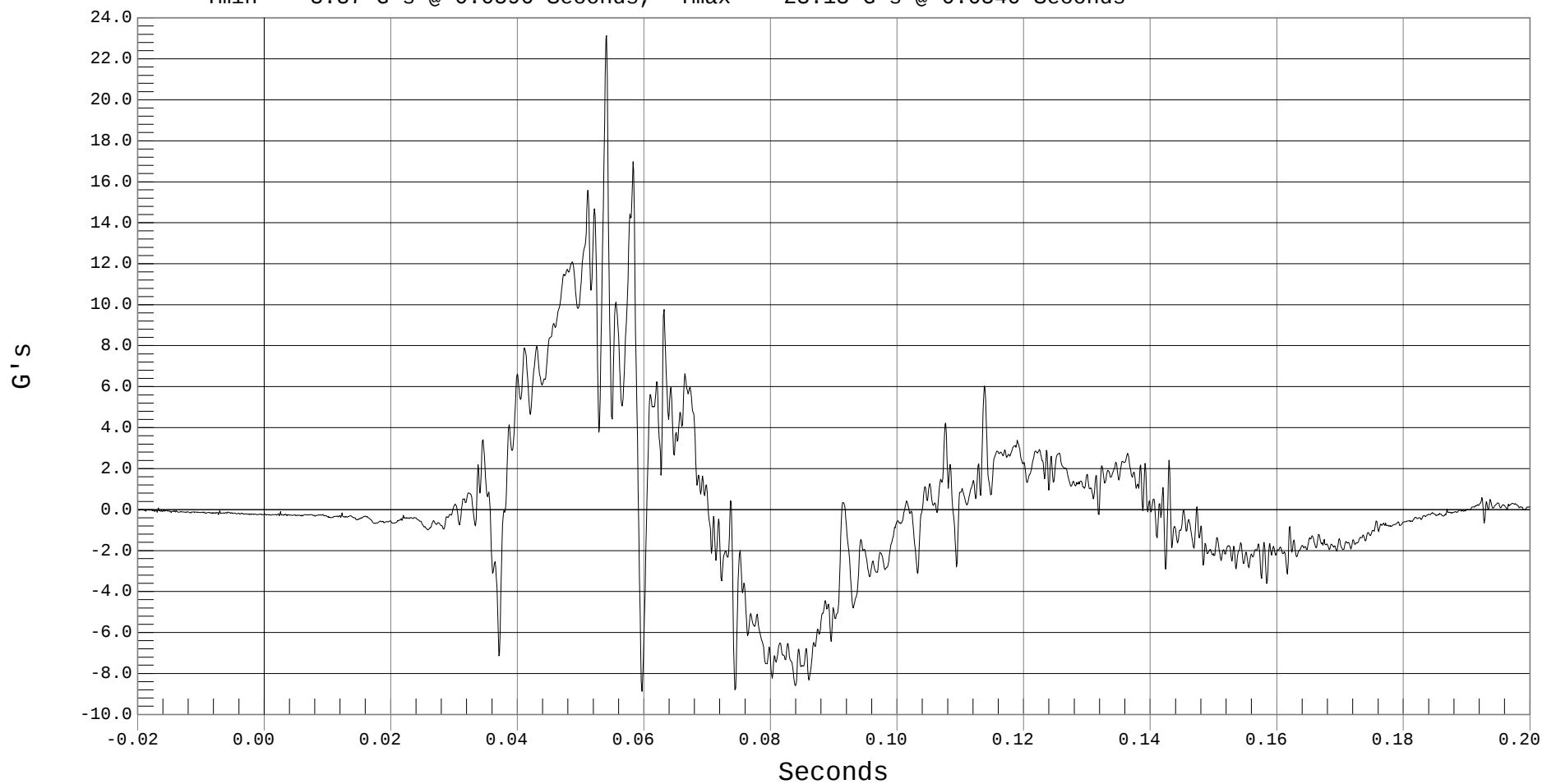
DRIVER PELVIS X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER PELVIS X, B01071AT.A45

Ymin = -8.87 G's @ 0.0596 Seconds, Ymax = 23.13 G's @ 0.0540 Seconds





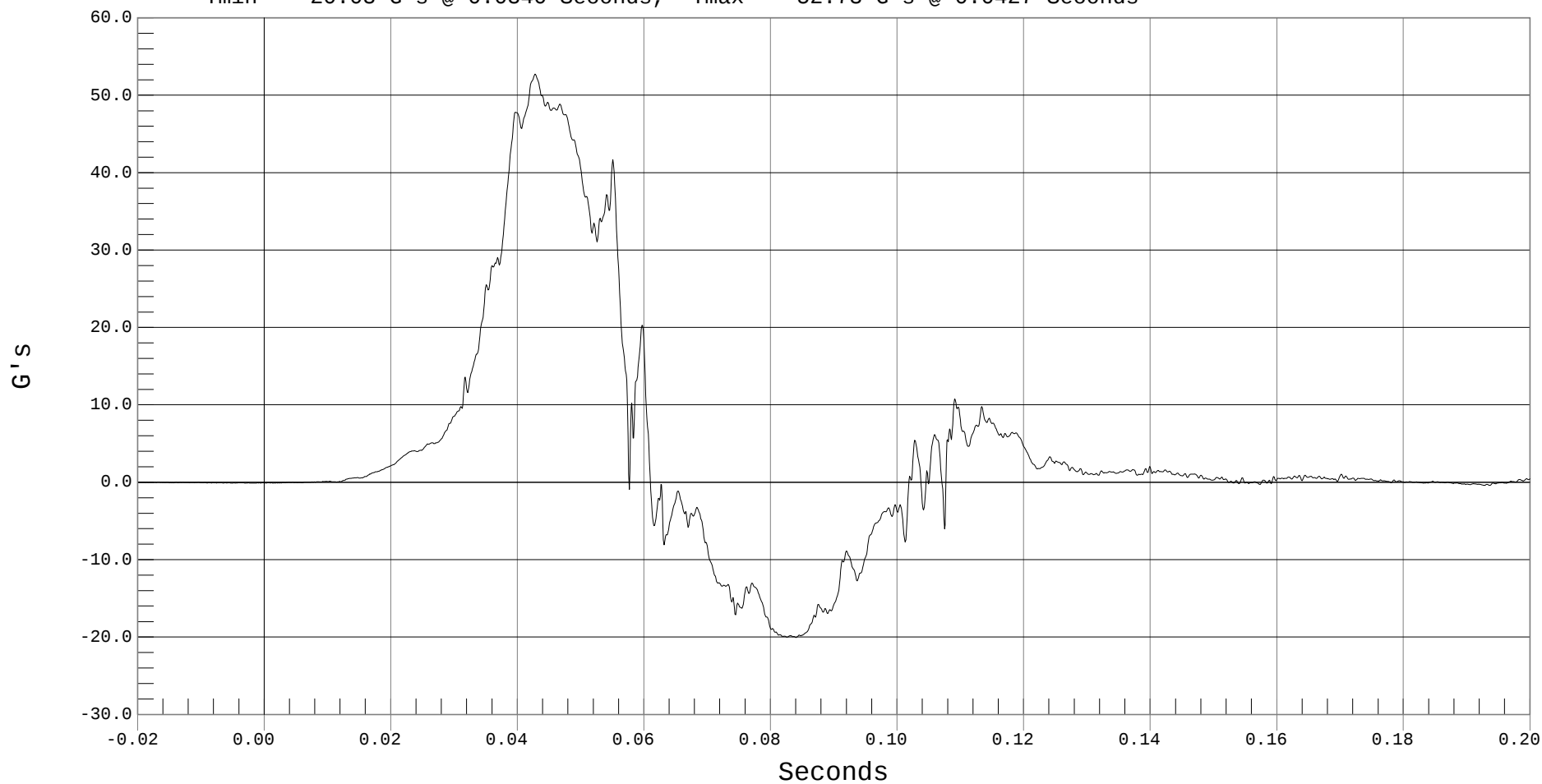
DRIVER PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER PELVIS Y, B01071AT.A46

Ymin = -20.08 G's @ 0.0840 Seconds, Ymax = 52.73 G's @ 0.0427 Seconds





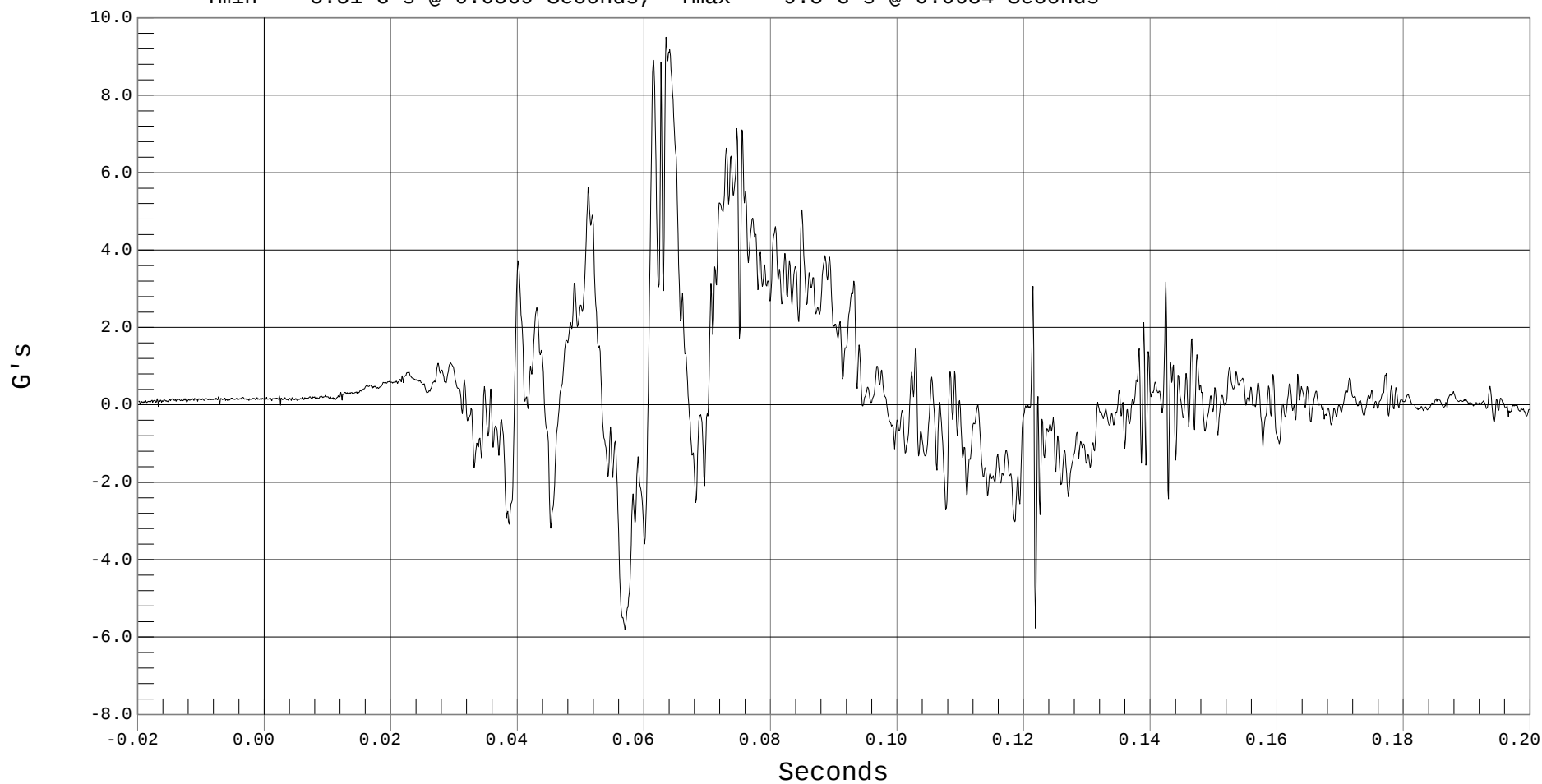
DRIVER PELVIS Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER PELVIS Z, B01071AT.A47

Ymin = -5.81 G's @ 0.0569 Seconds, Ymax = 9.5 G's @ 0.0634 Seconds





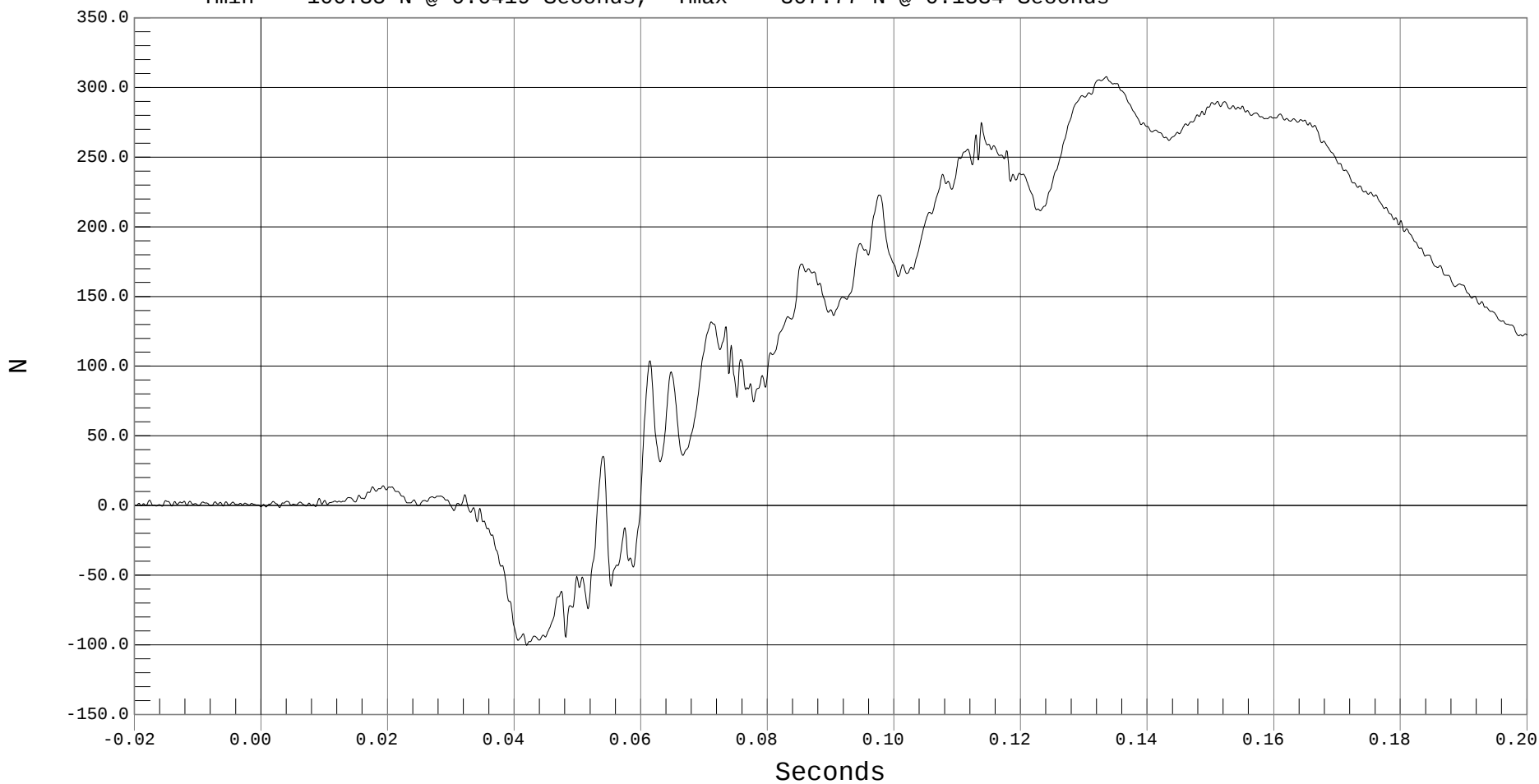
DRIVER LEFT FEMUR FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR FORCE X, B01071FF.F54

Ymin = -100.35 N @ 0.0419 Seconds, Ymax = 307.77 N @ 0.1334 Seconds





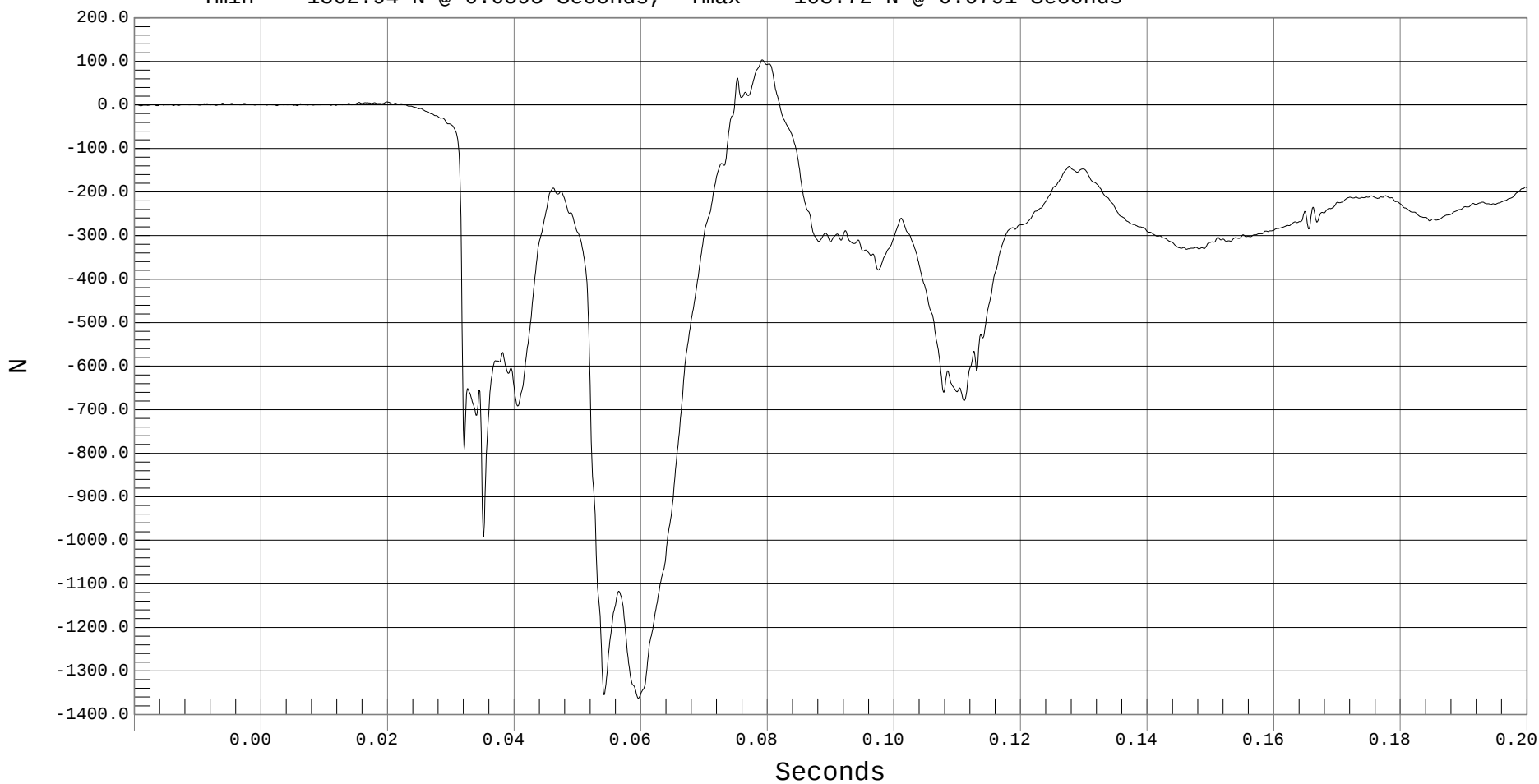
DRIVER LEFT FEMUR FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR FORCE Y, B01071FF.F55

Ymin = -1362.94 N @ 0.0595 Seconds, Ymax = 103.72 N @ 0.0791 Seconds





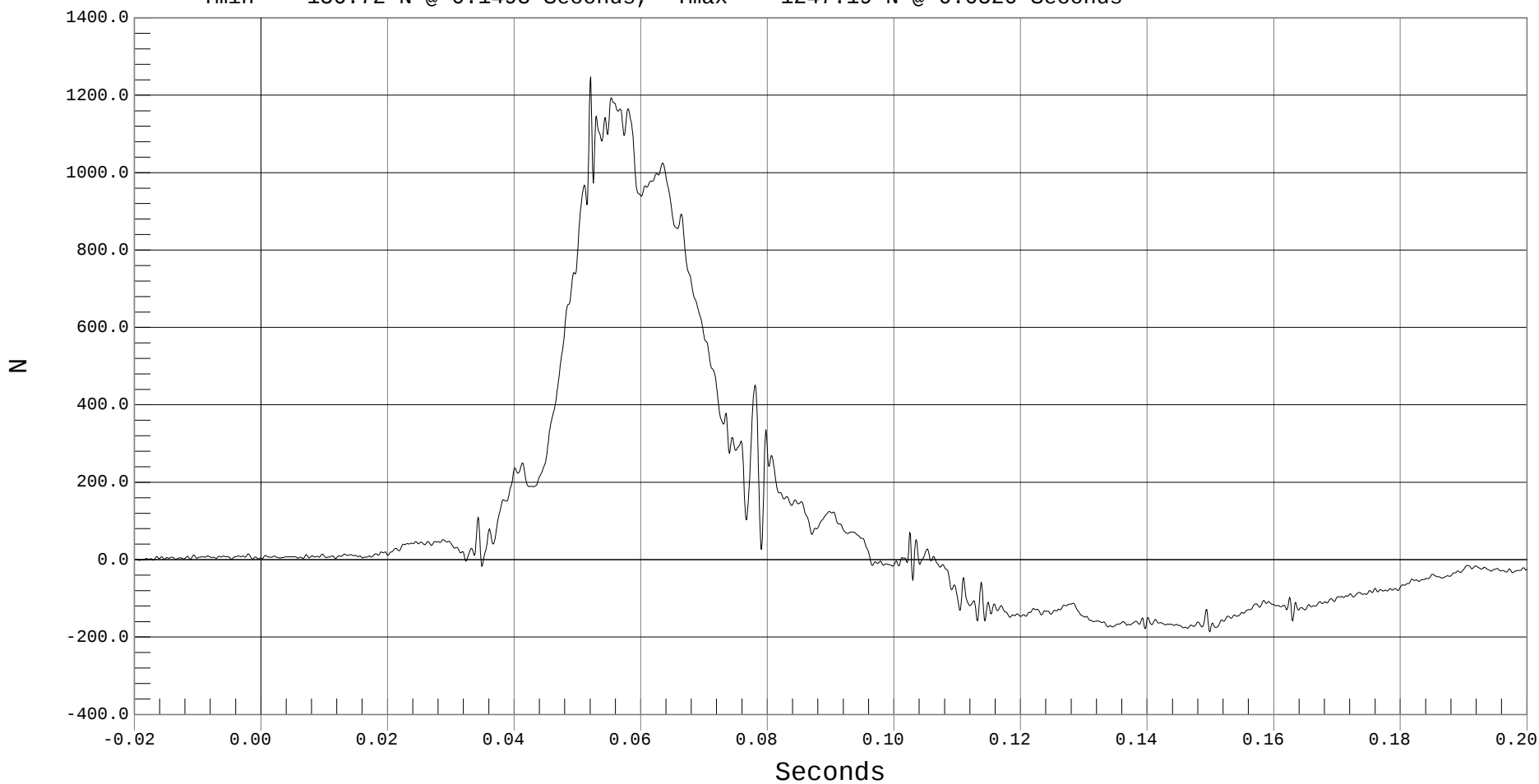
DRIVER LEFT FEMUR FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER LEFT FEMUR FORCE Z, B01071FF.F56

Ymin = -186.72 N @ 0.1498 Seconds, Ymax = 1247.19 N @ 0.0520 Seconds





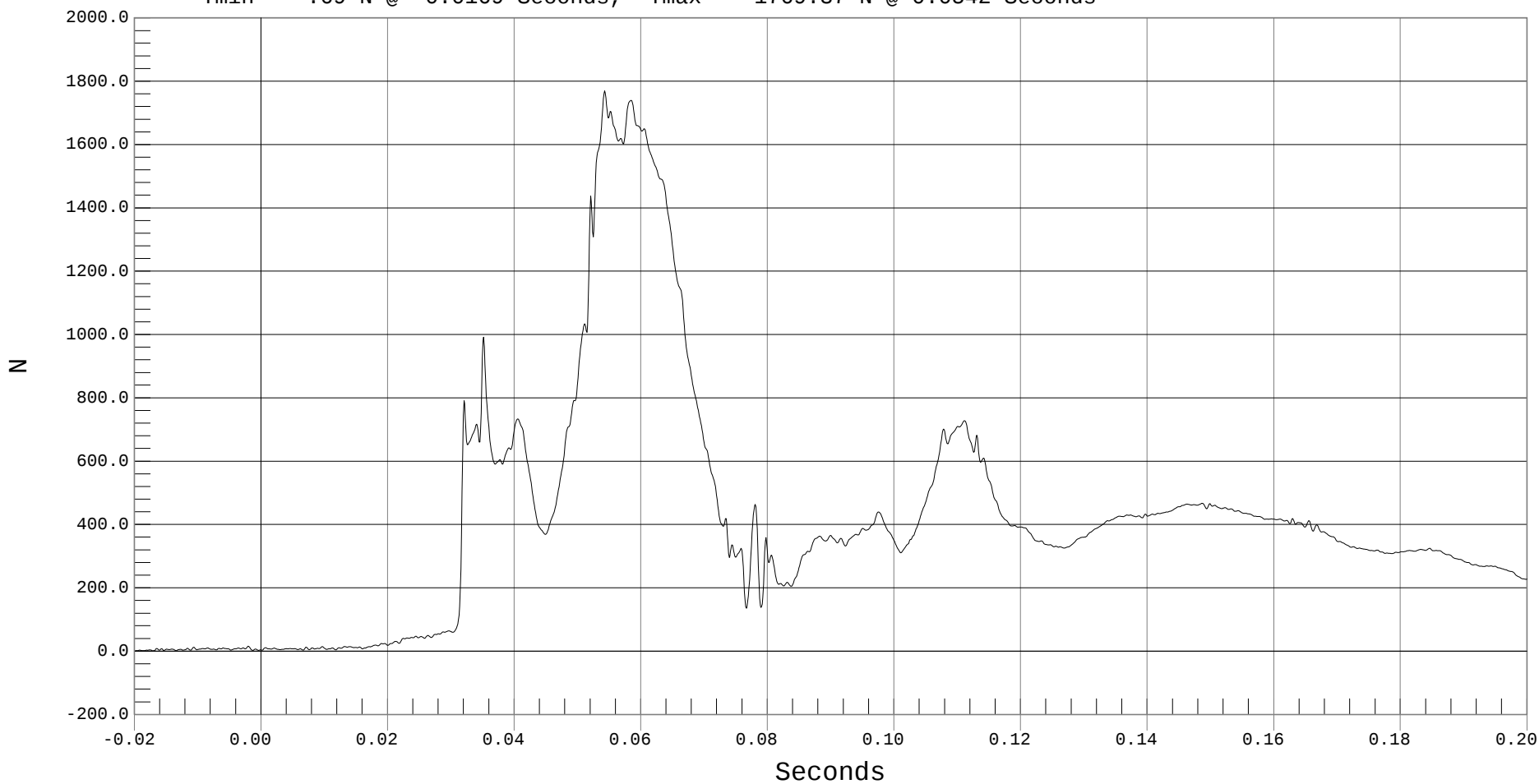
DRIVER LEFT FEMUR FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR FORCE RESULTANT, B01071FV.F54

Ymin = .69 N @ -0.0169 Seconds, Ymax = 1769.37 N @ 0.0542 Seconds





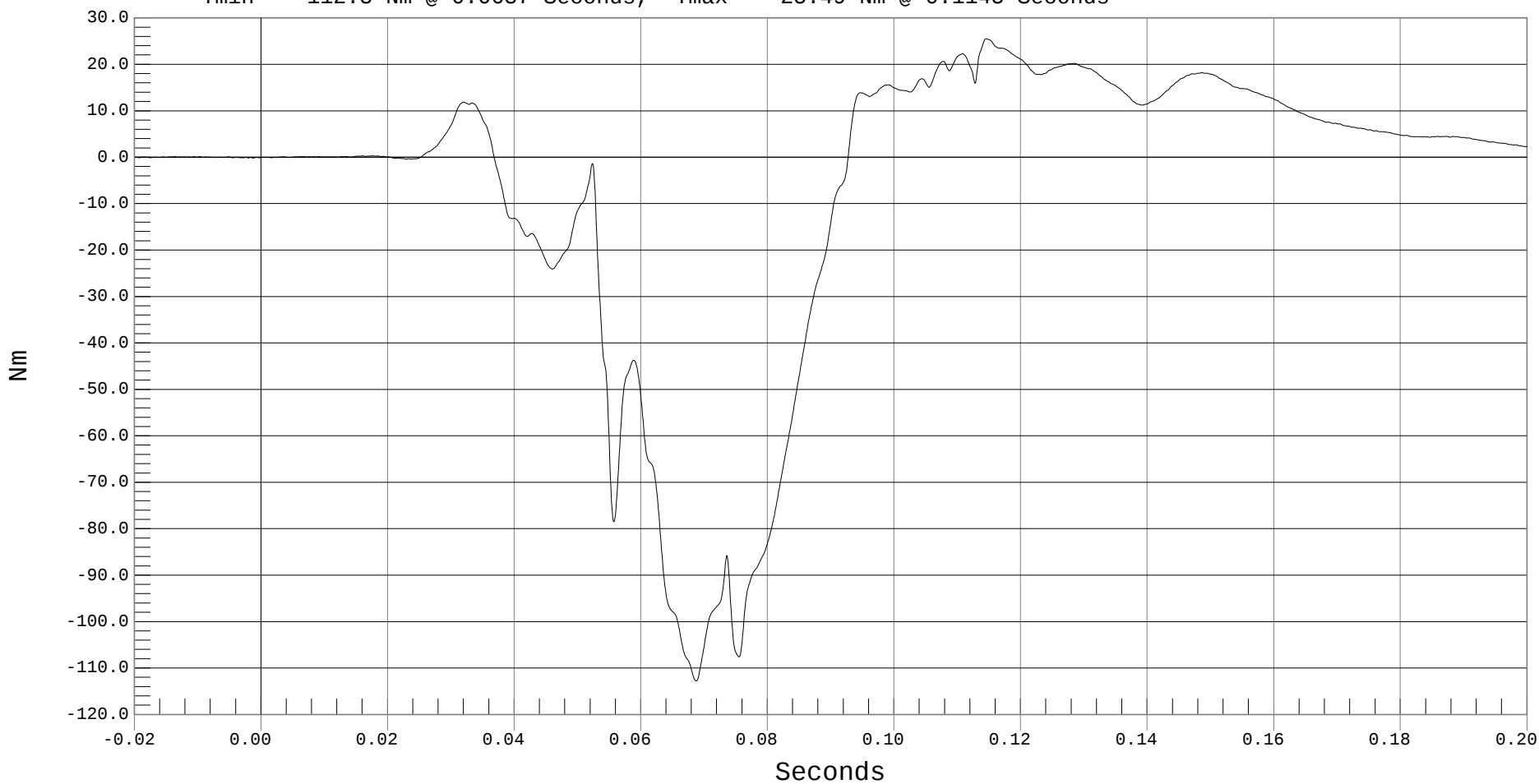
DRIVER LEFT FEMUR MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR MOMENT X, B01071MF.M57

Ymin = -112.8 Nm @ 0.0687 Seconds, Ymax = 25.49 Nm @ 0.1145 Seconds





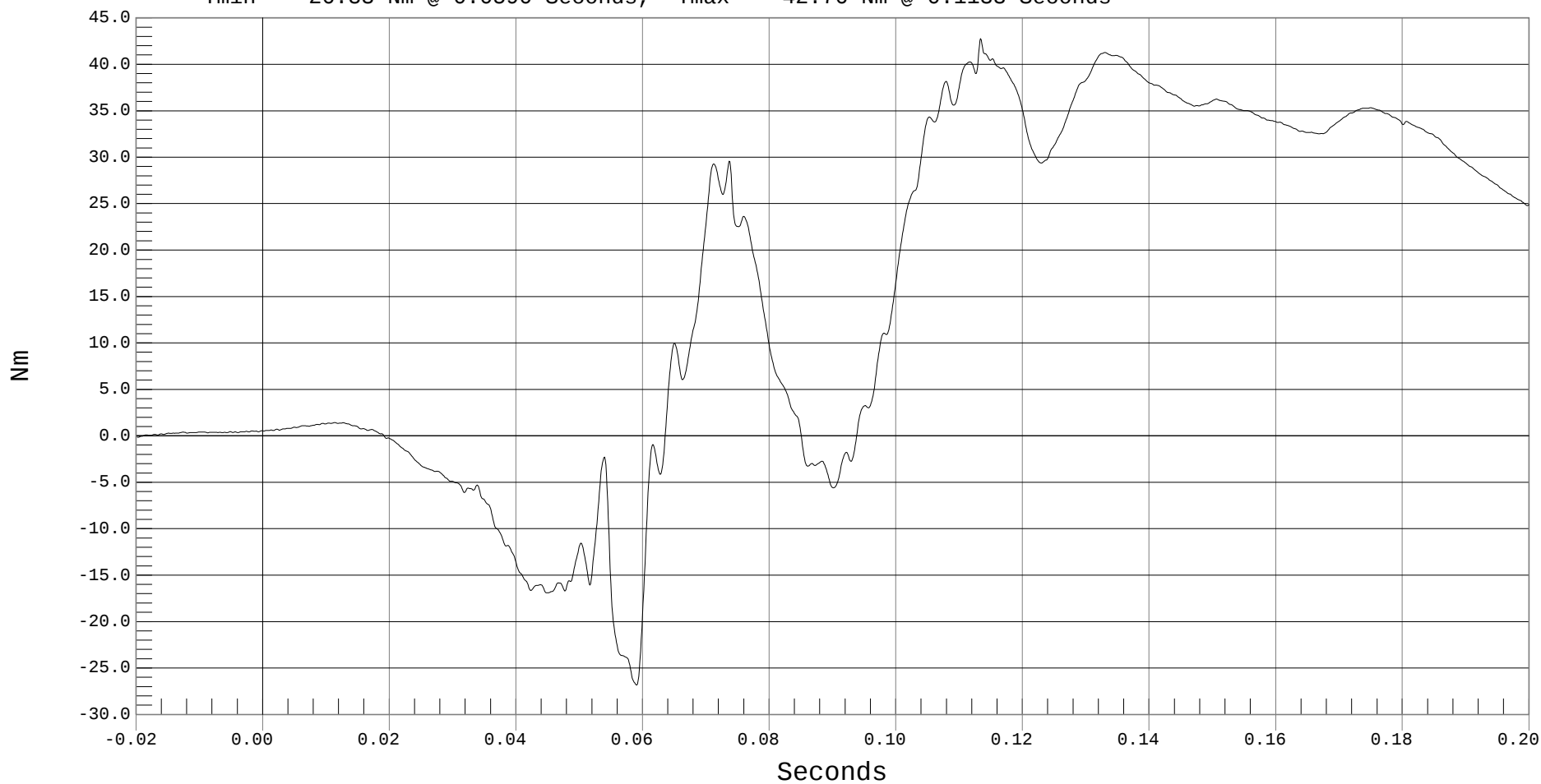
DRIVER LEFT FEMUR MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR MOMENT Y, B01071MF.M58

Ymin = -26.83 Nm @ 0.0590 Seconds, Ymax = 42.76 Nm @ 0.1133 Seconds





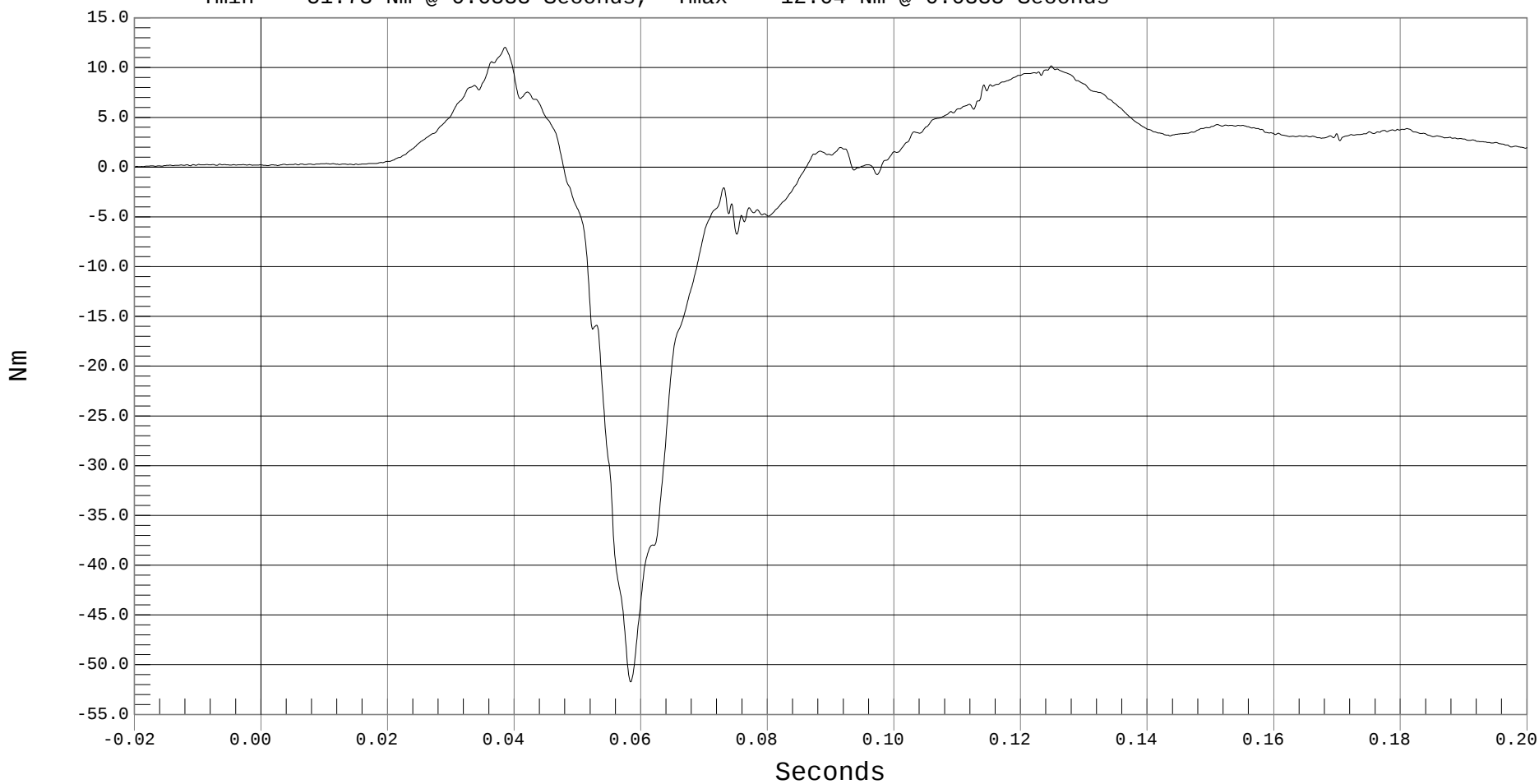
DRIVER LEFT FEMUR MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR MOMENT Z, B01071MF.M59

Ymin = -51.73 Nm @ 0.0583 Seconds, Ymax = 12.04 Nm @ 0.0385 Seconds





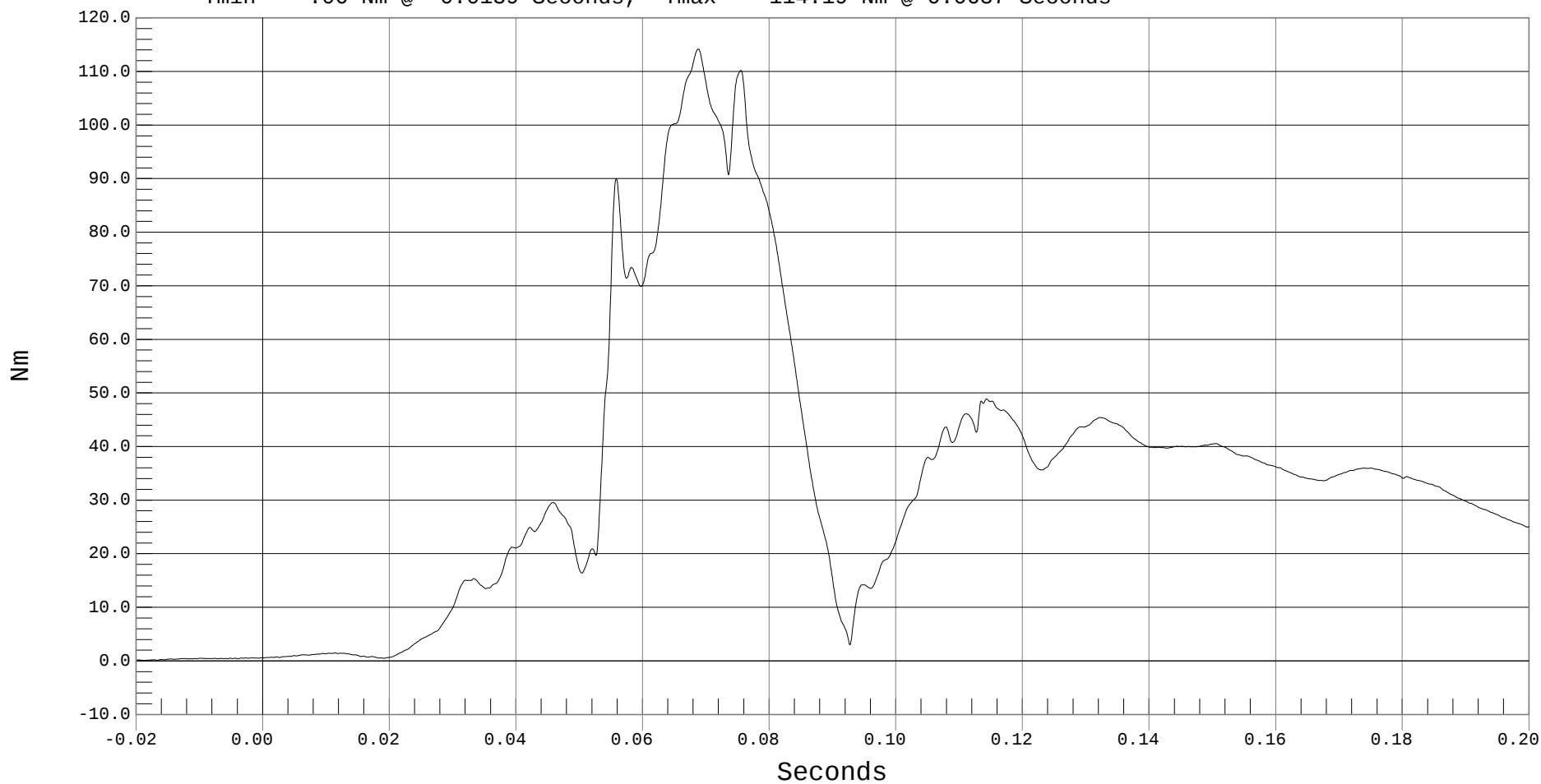
DRIVER LEFT FEMUR MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER LEFT FEMUR MOMENT RESULTANT, B01071MV.M57

Ymin = .06 Nm @ -0.0189 Seconds, Ymax = 114.19 Nm @ 0.0687 Seconds





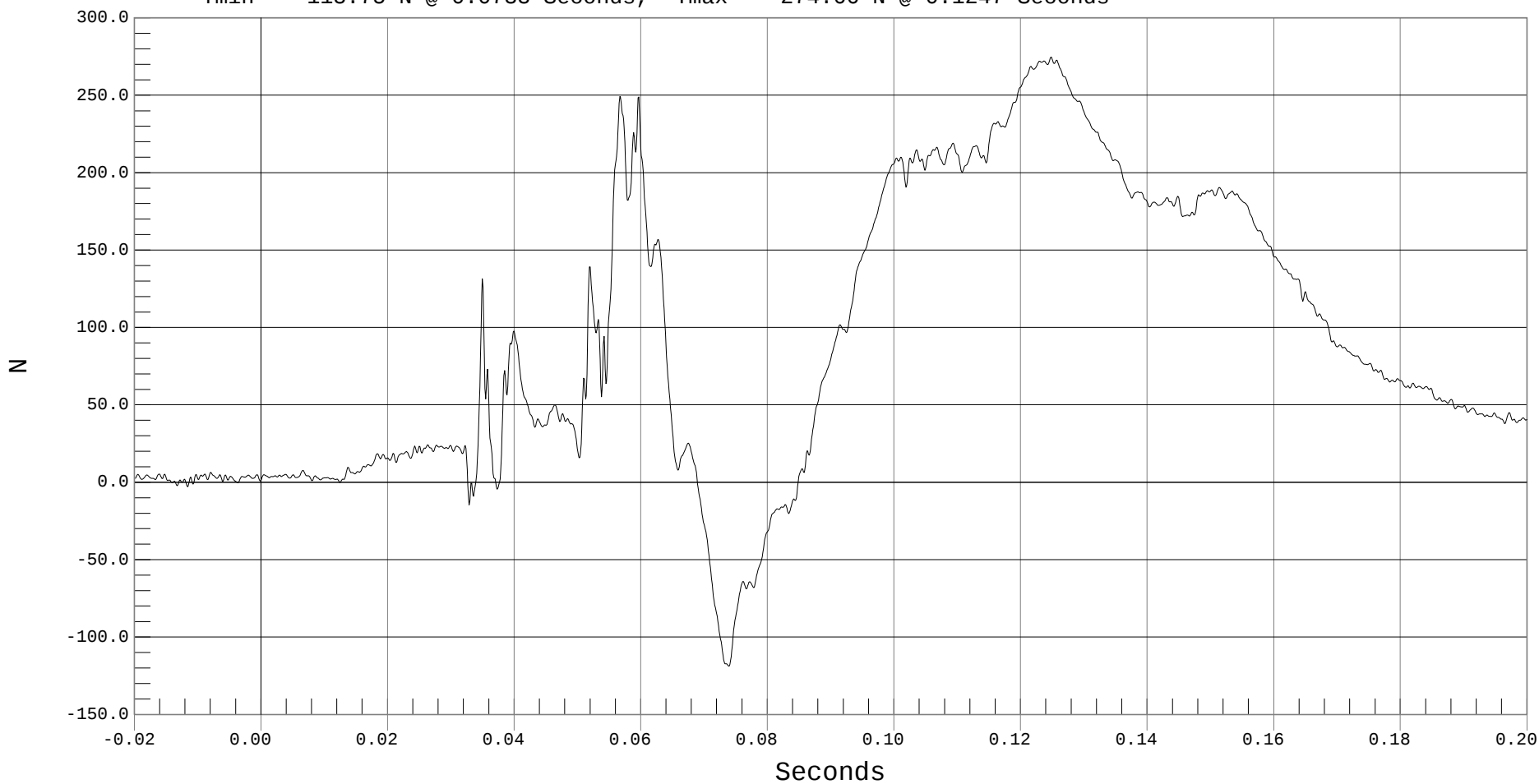
DRIVER RIGHT FEMUR FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE X, B01071FF.F48

Ymin = -118.75 N @ 0.0738 Seconds, Ymax = 274.66 N @ 0.1247 Seconds





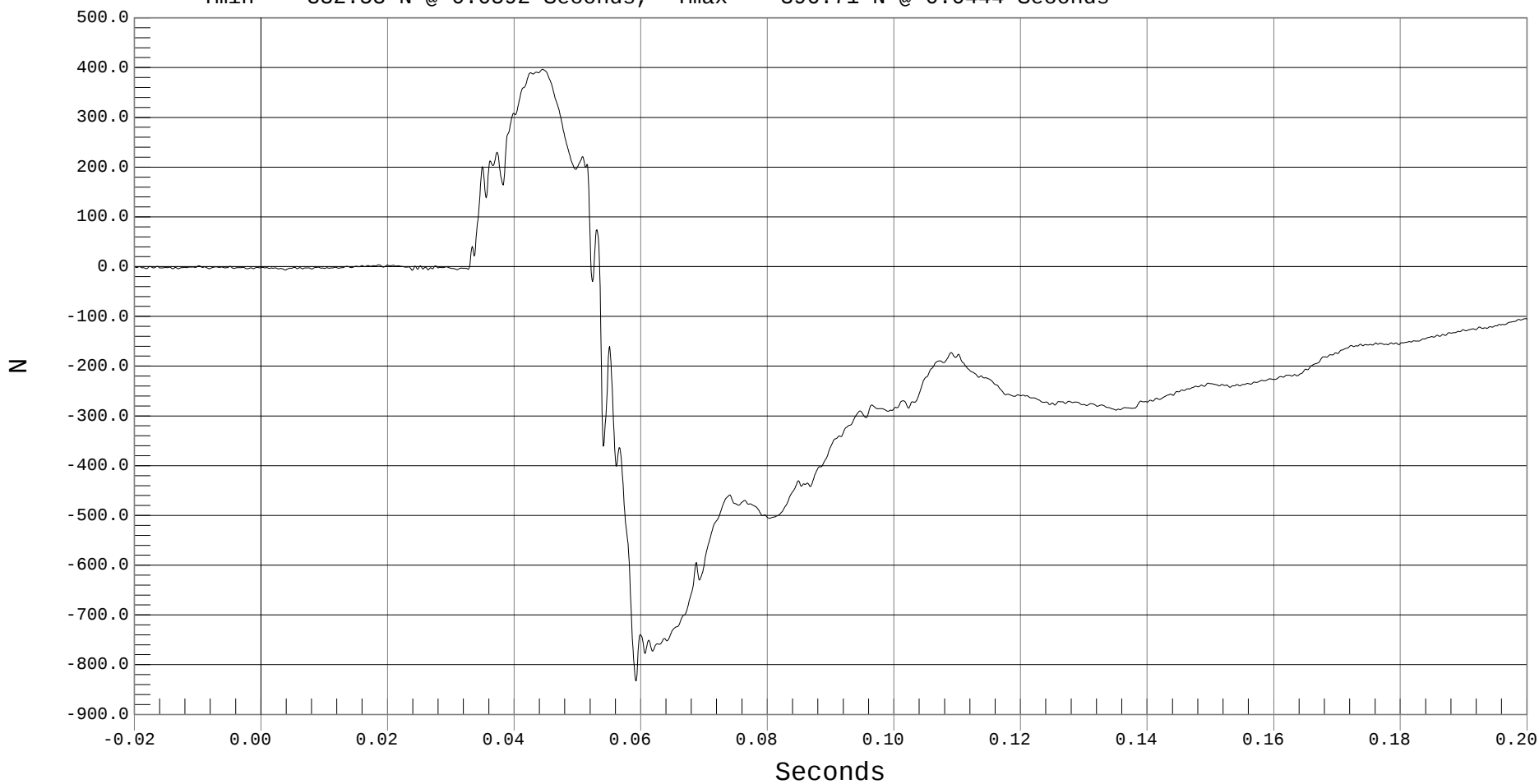
DRIVER RIGHT FEMUR FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE Y, B01071FF.F49

Ymin = -832.58 N @ 0.0592 Seconds, Ymax = 396.71 N @ 0.0444 Seconds





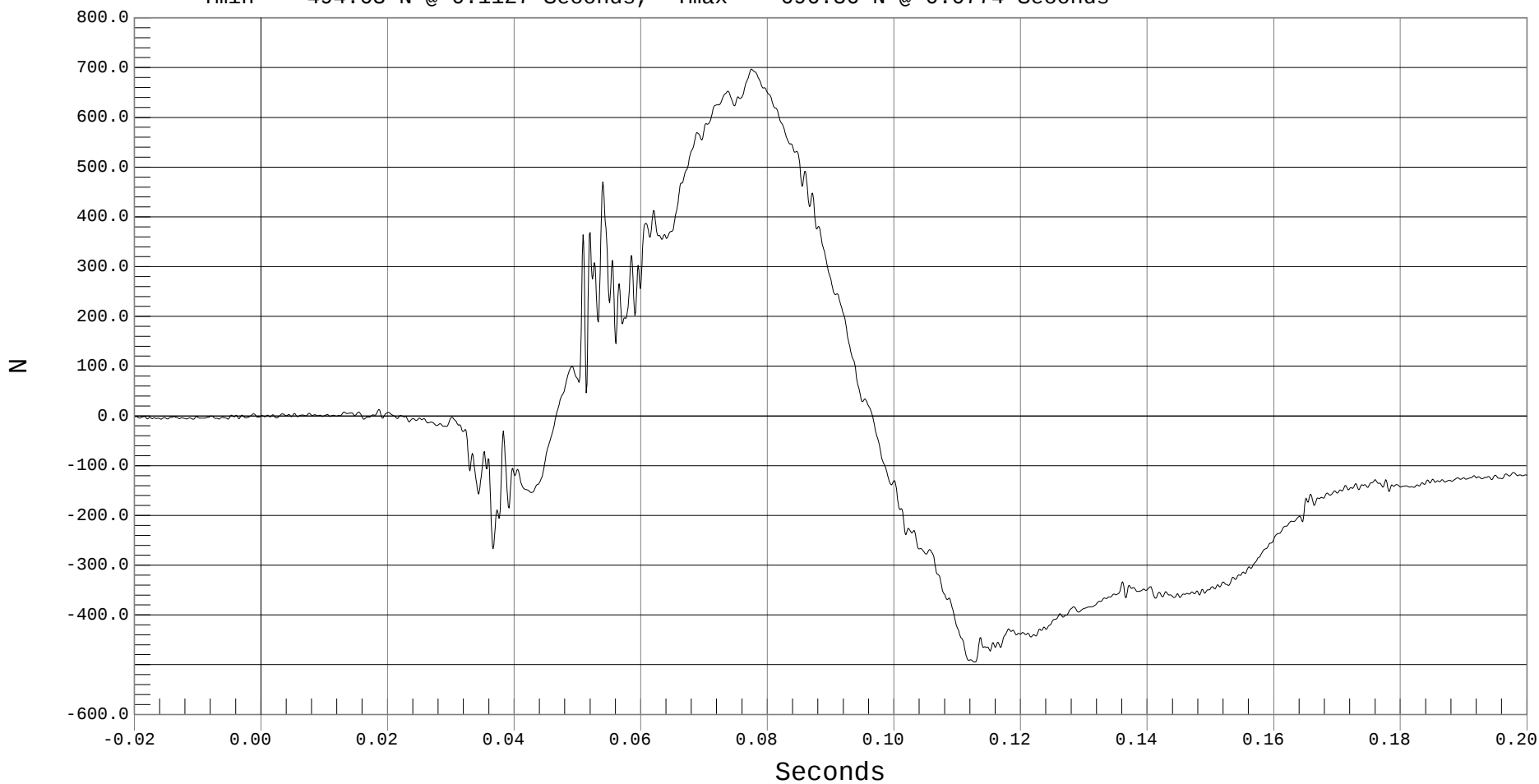
DRIVER RIGHT FEMUR FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE Z, B01071FF.F50

Ymin = -494.63 N @ 0.1127 Seconds, Ymax = 696.86 N @ 0.0774 Seconds





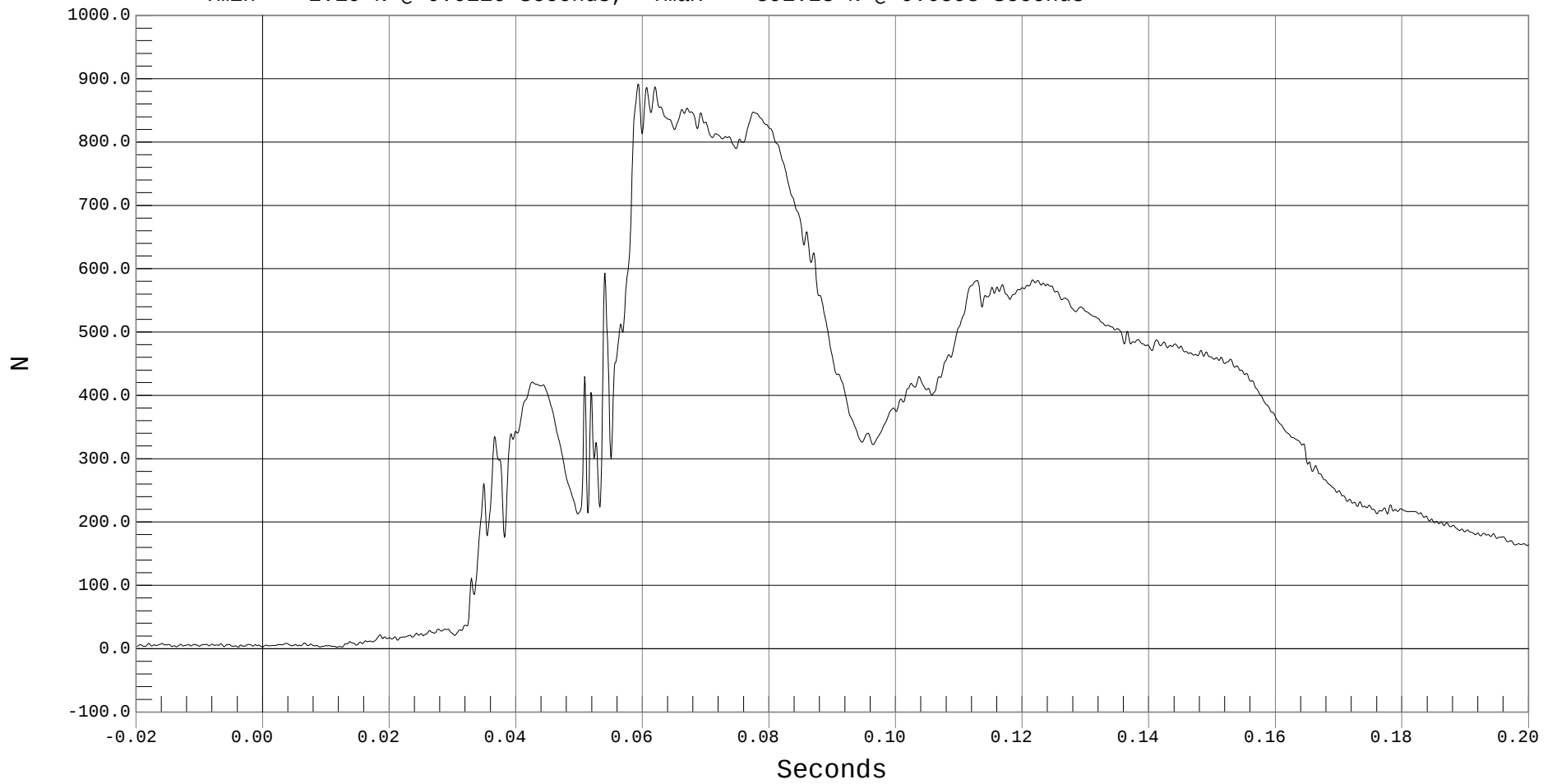
DRIVER RIGHT FEMUR FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR FORCE RESULTANT, B01071FV.F48

Ymin = 2.19 N @ 0.0116 Seconds, Ymax = 891.28 N @ 0.0593 Seconds





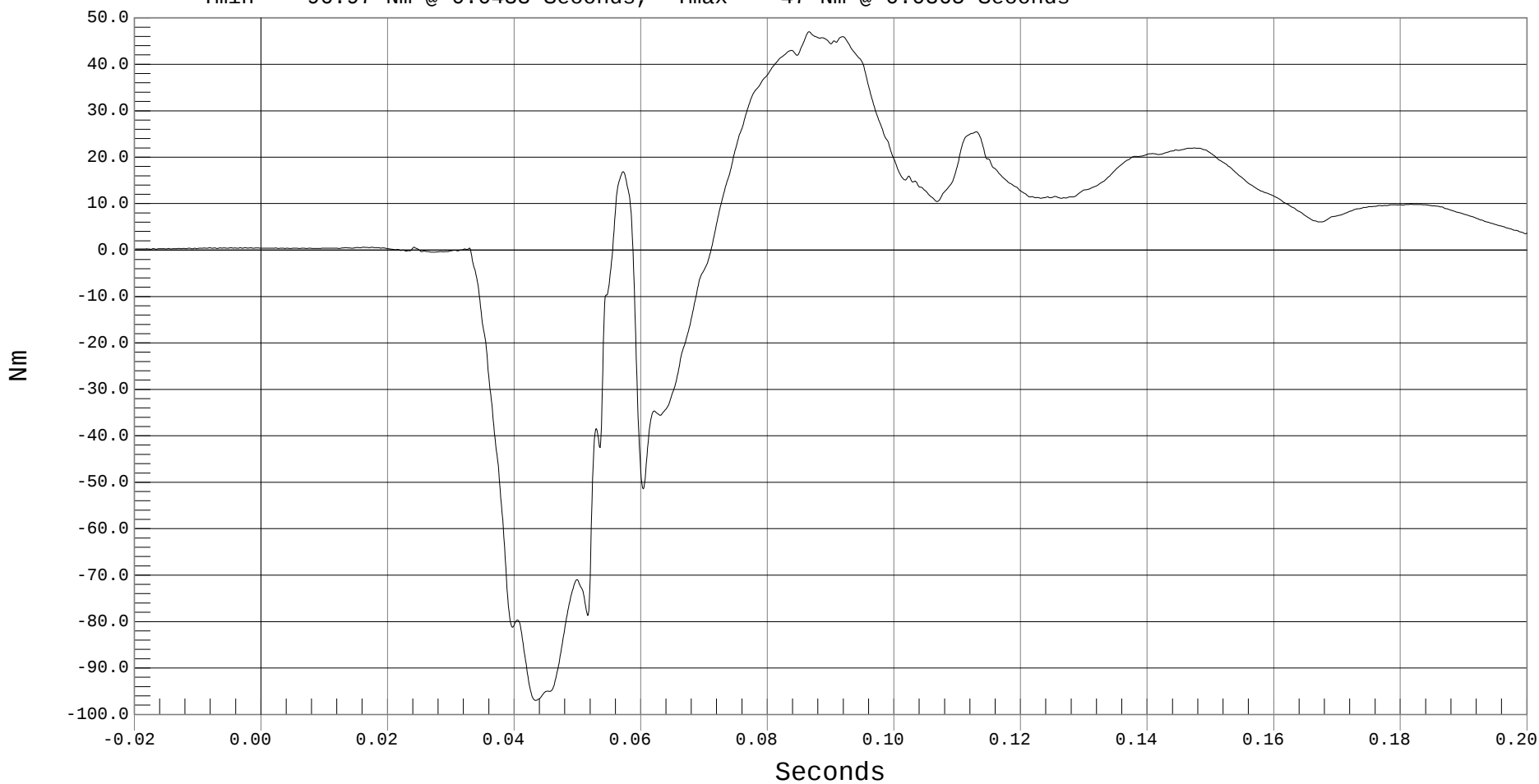
DRIVER RIGHT FEMUR MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR MOMENT X, B01071MF.M51

Ymin = -96.97 Nm @ 0.0433 Seconds, Ymax = 47 Nm @ 0.0865 Seconds





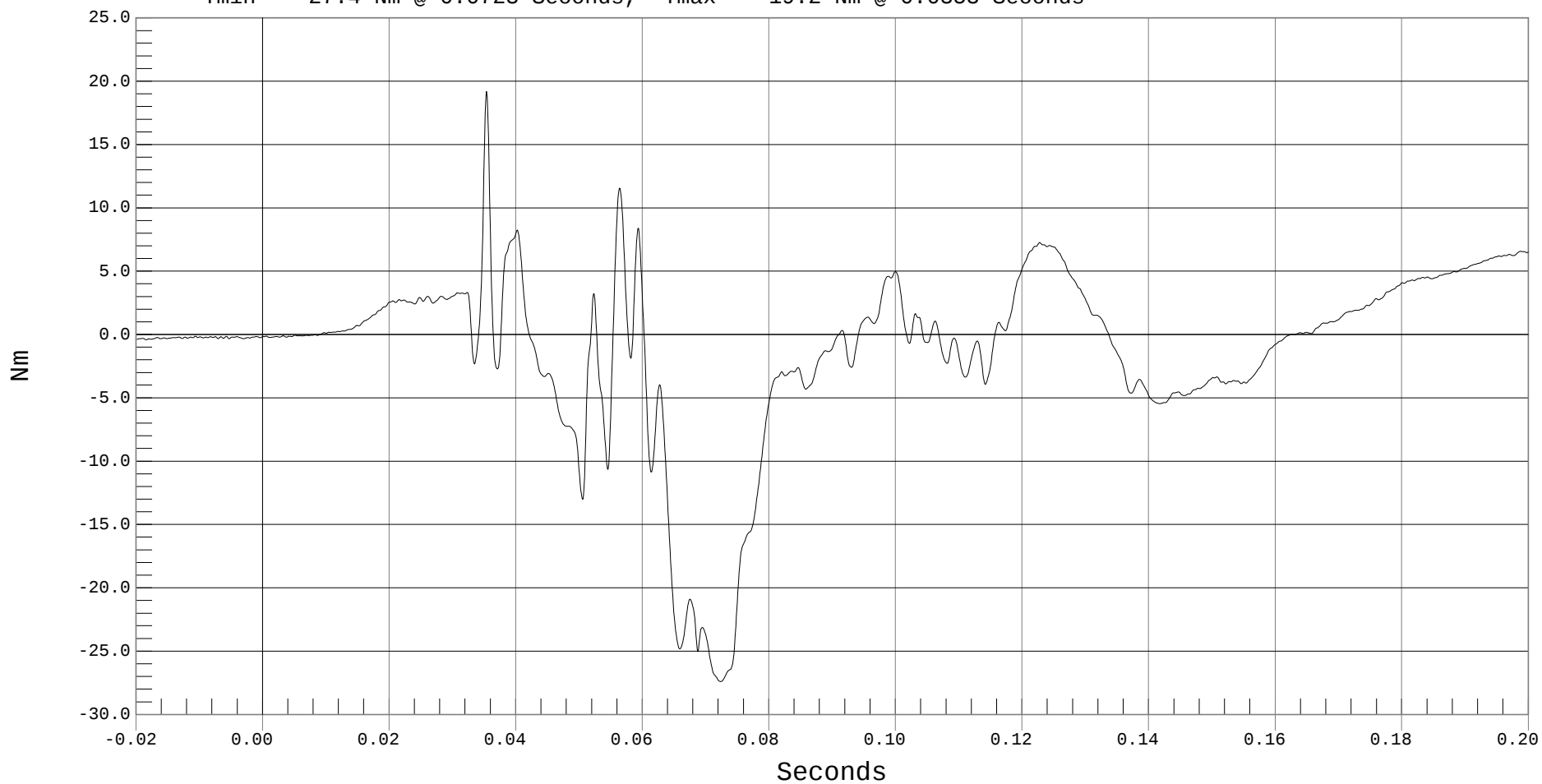
DRIVER RIGHT FEMUR MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR MOMENT Y, B01071MF.M52

Ymin = -27.4 Nm @ 0.0723 Seconds, Ymax = 19.2 Nm @ 0.0353 Seconds





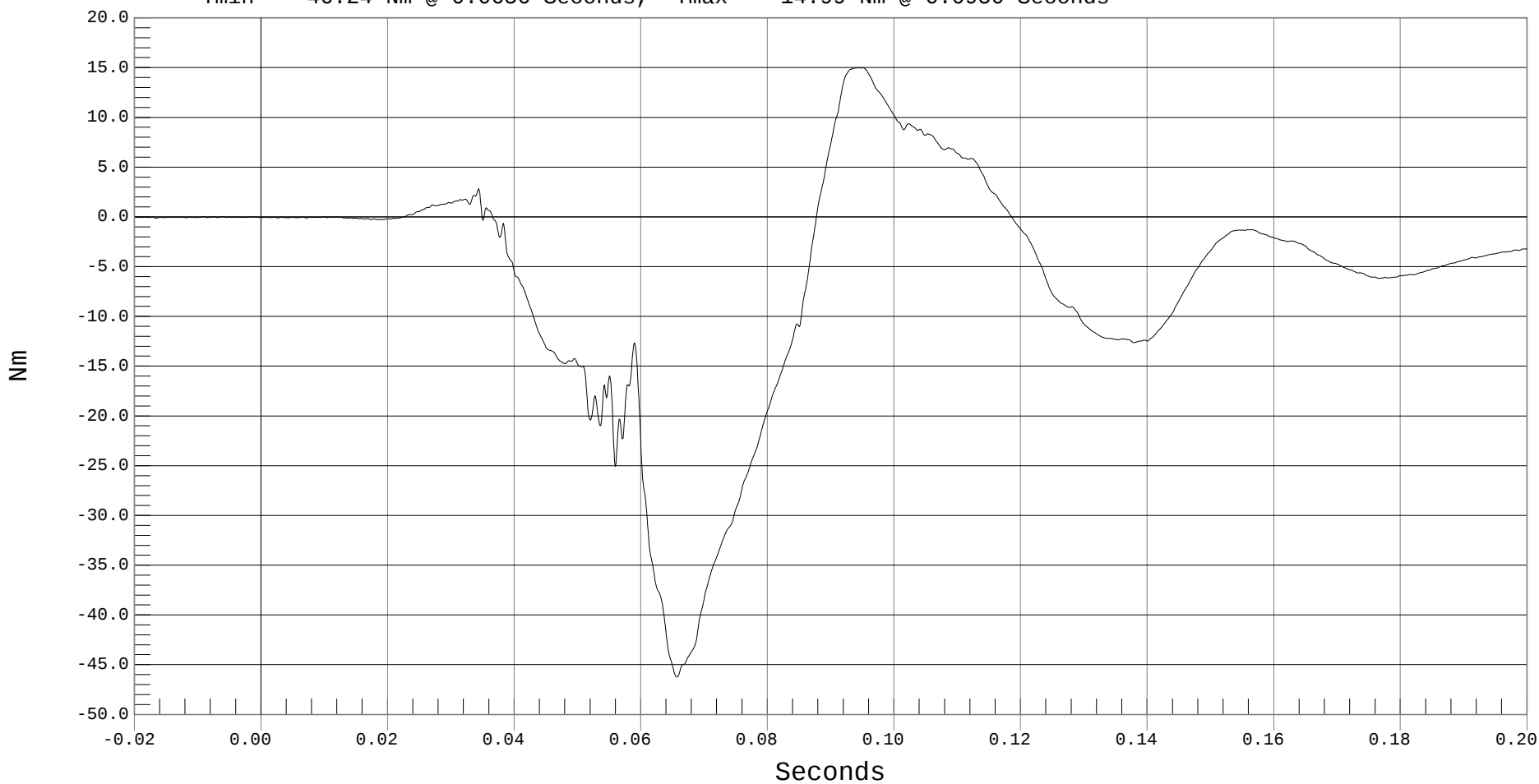
DRIVER RIGHT FEMUR MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

1 DRIVER RIGHT FEMUR MOMENT Z, B01071MF.M53

Ymin = -46.24 Nm @ 0.0656 Seconds, Ymax = 14.99 Nm @ 0.0950 Seconds





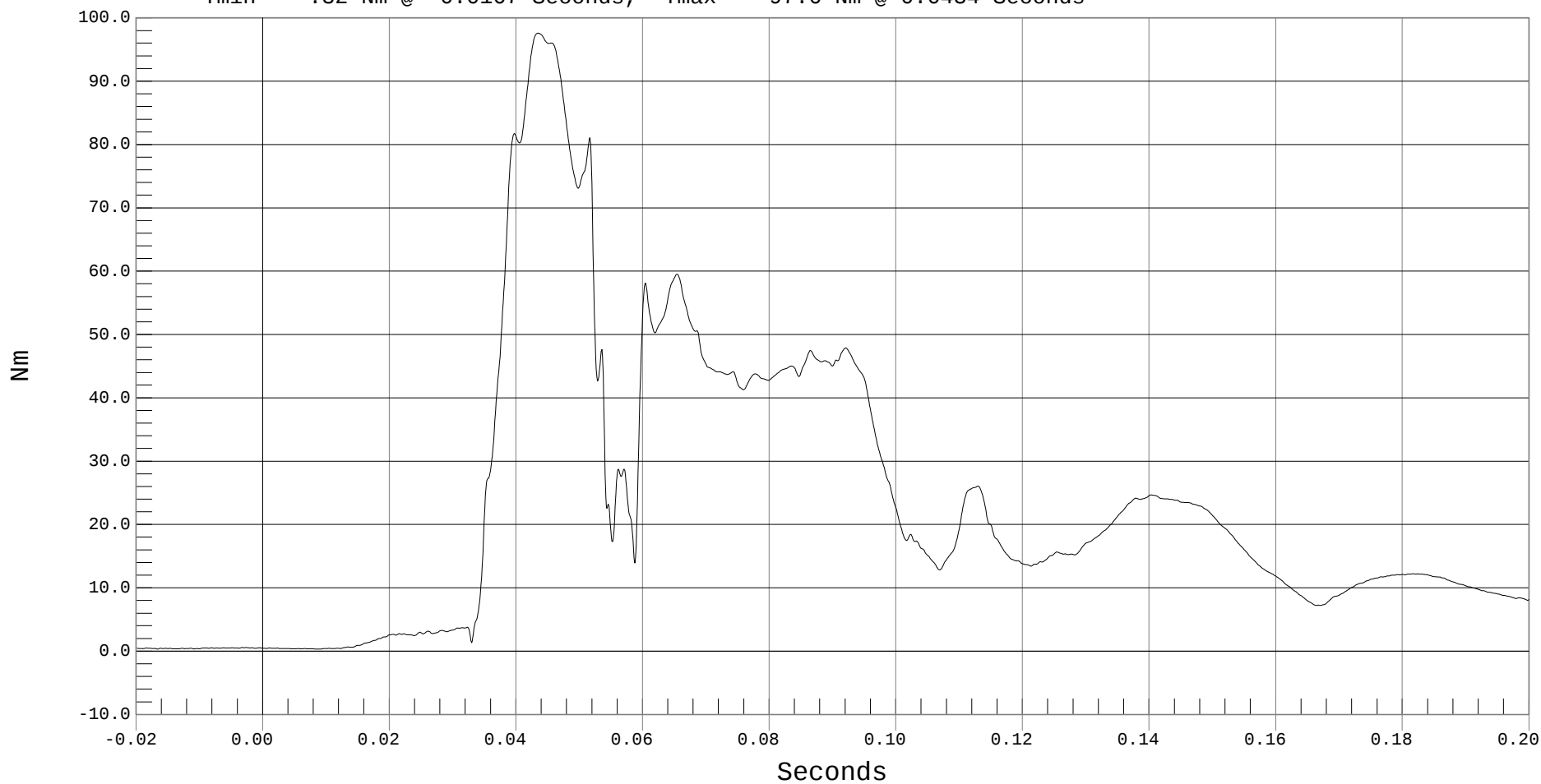
DRIVER RIGHT FEMUR MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 DRIVER RIGHT FEMUR MOMENT RESULTANT, B01071MV.M51

Ymin = .32 Nm @ -0.0167 Seconds, Ymax = 97.6 Nm @ 0.0434 Seconds





DRIVER HEAD CONTACT

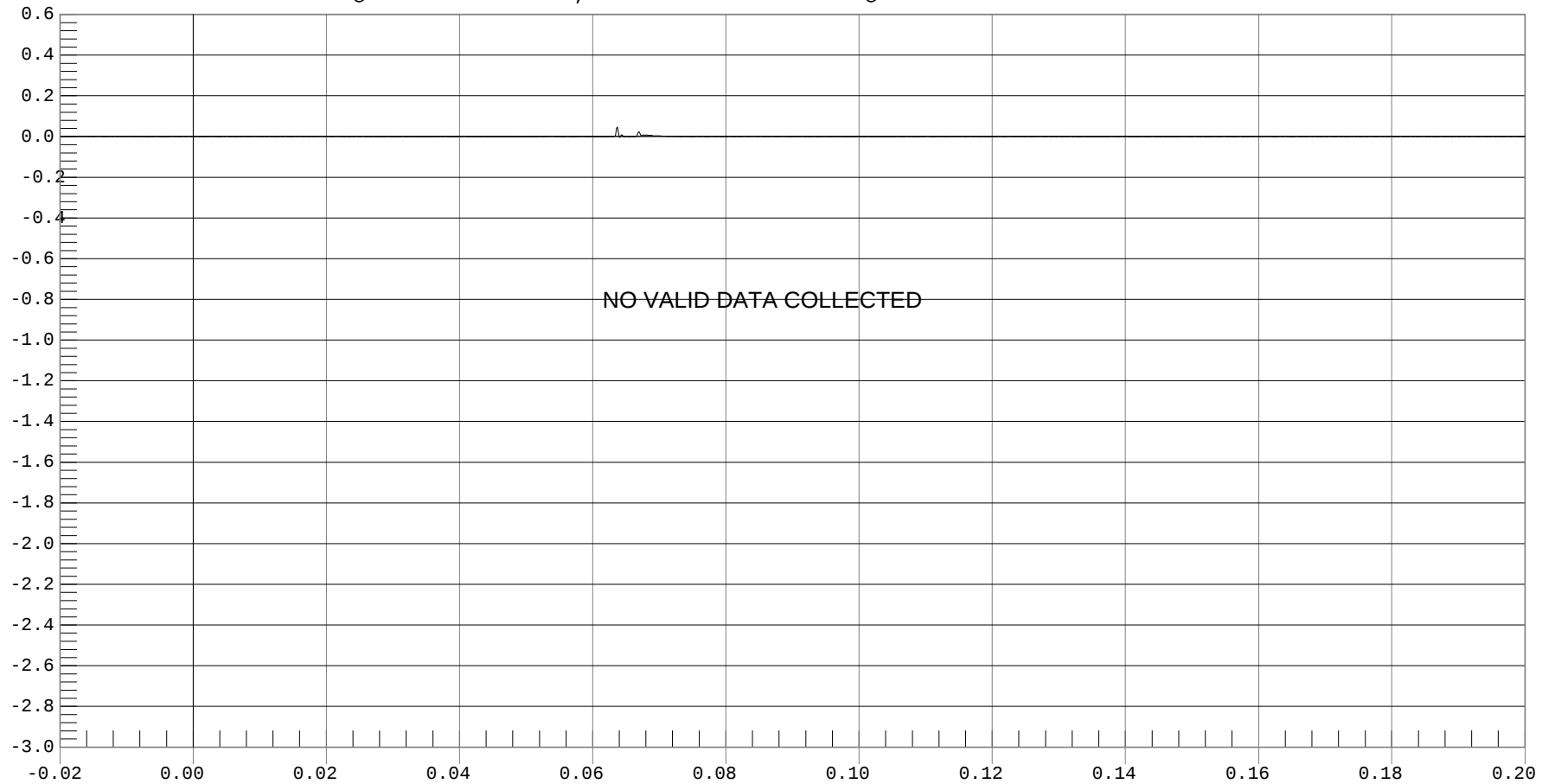
Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER HEAD CONTACT, B010710T.009

Ymin = 0 Volts @ 0.0640 Seconds, Ymax = .05 Volts @ 0.0636 Seconds

Volts



Seconds



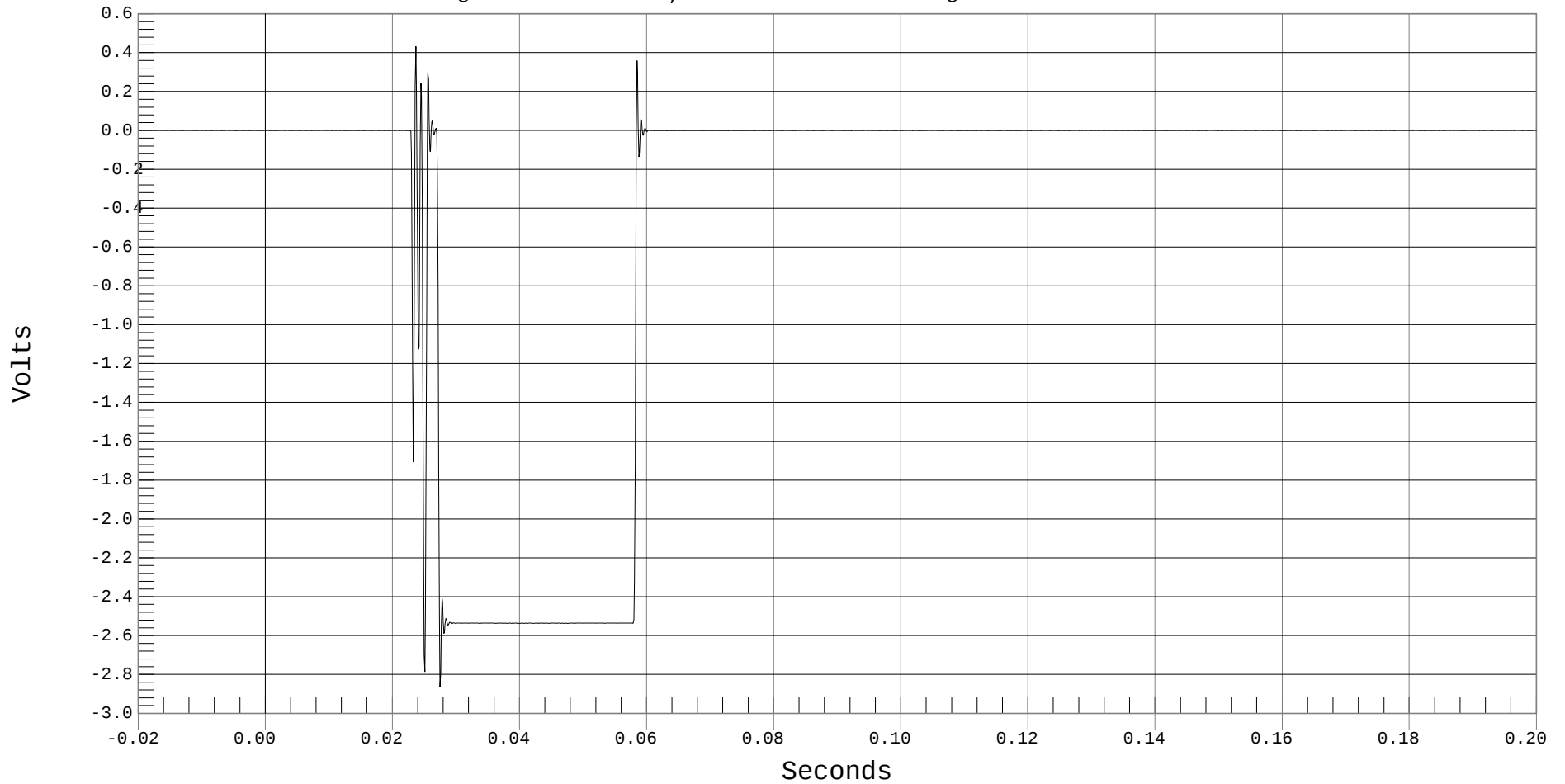
DRIVER ARM CONTACT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER ARM CONTACT, B010710T.010

Ymin = -2.86 Volts @ 0.0274 Seconds, Ymax = .43 Volts @ 0.0236 Seconds





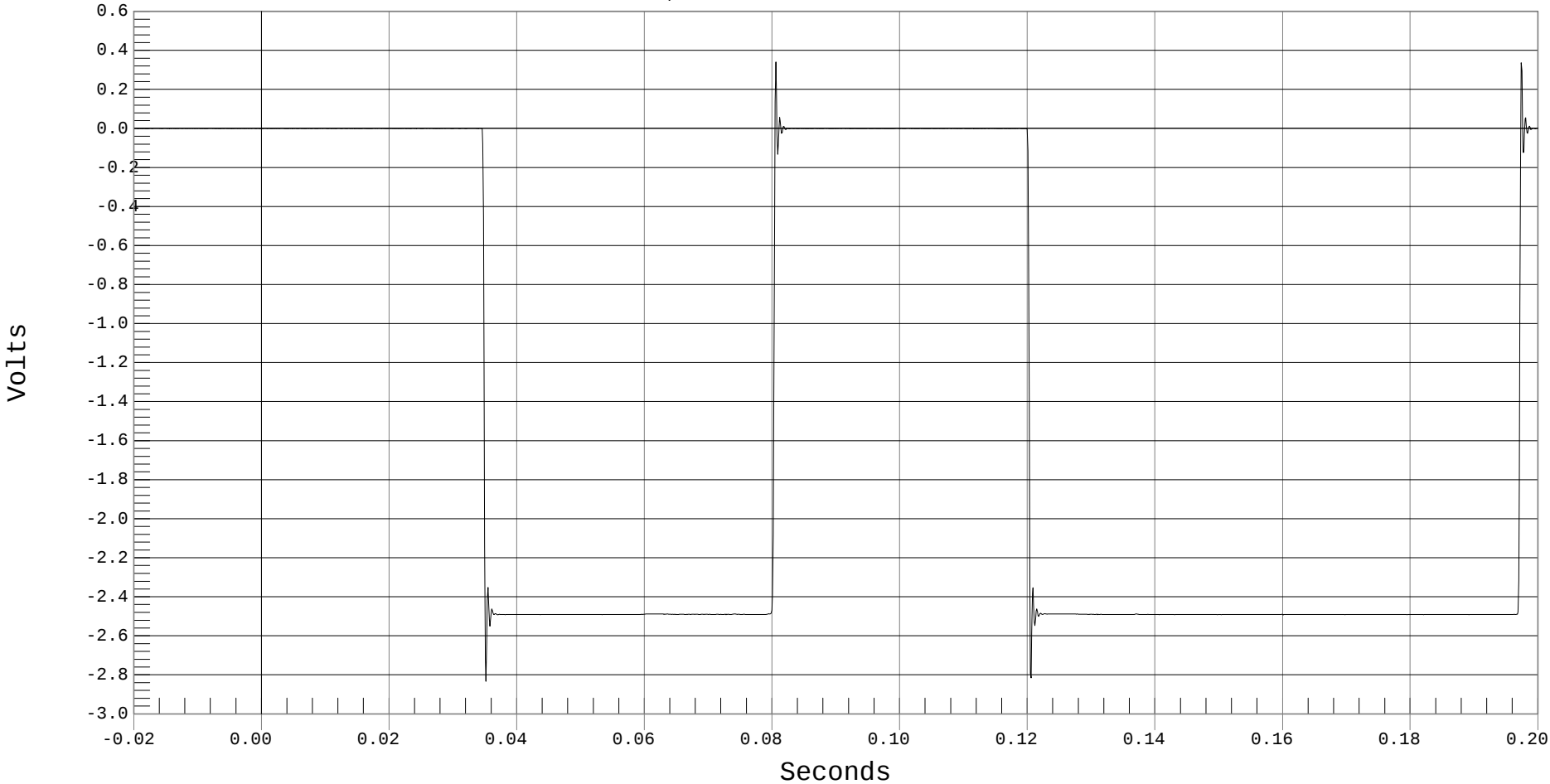
DRIVER RIB CONTACT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 DRIVER RIB CONTACT, B010710T.011

Ymin = -2.83 Volts @ 0.0351 Seconds, Ymax = .34 Volts @ 0.0805 Seconds





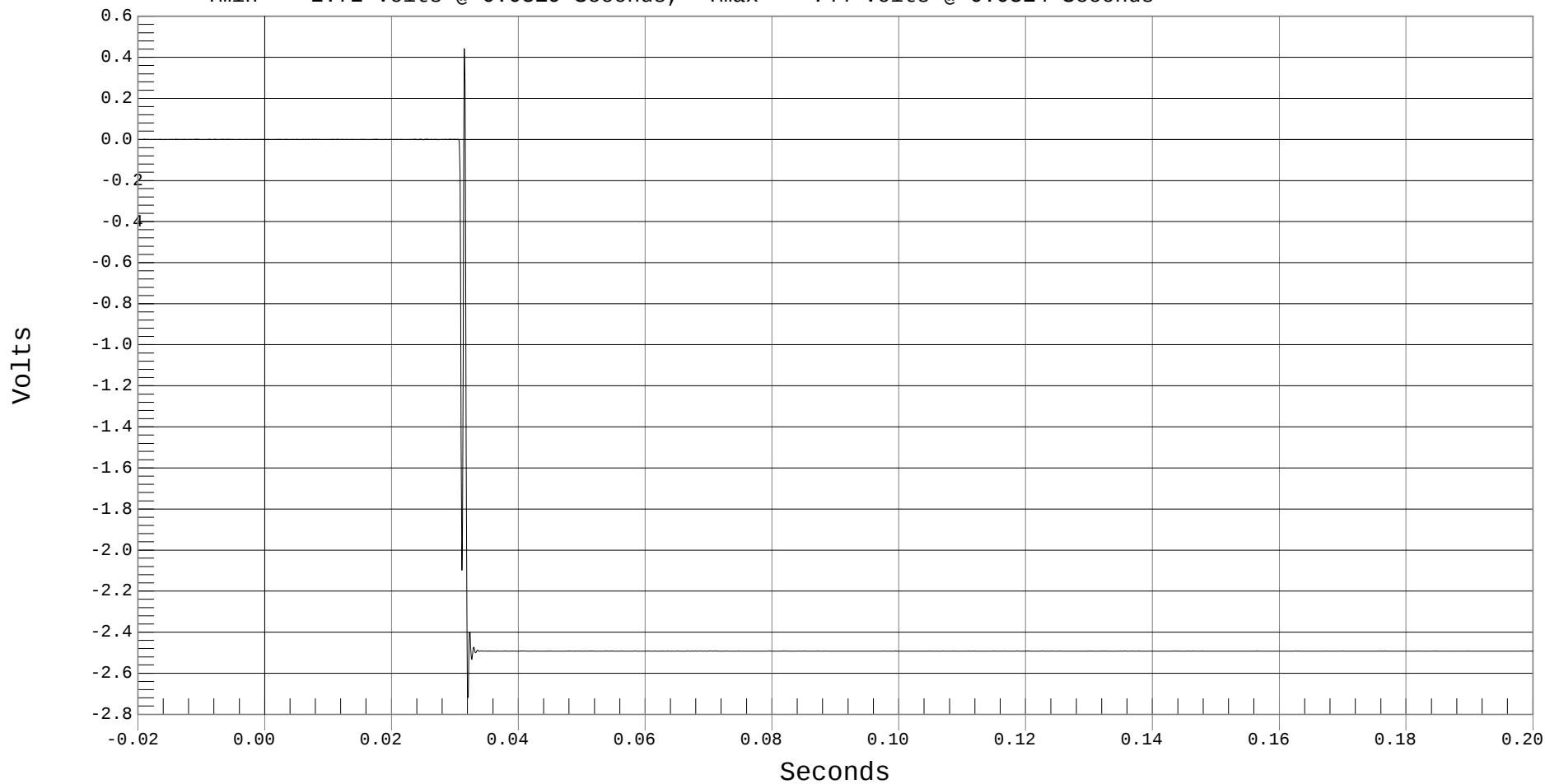
DRIVER PELVIS CONTACT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 DRIVER PELVIS CONTACT, B010710T.012

Ymin = -2.72 Volts @ 0.0319 Seconds, Ymax = .44 Volts @ 0.0314 Seconds





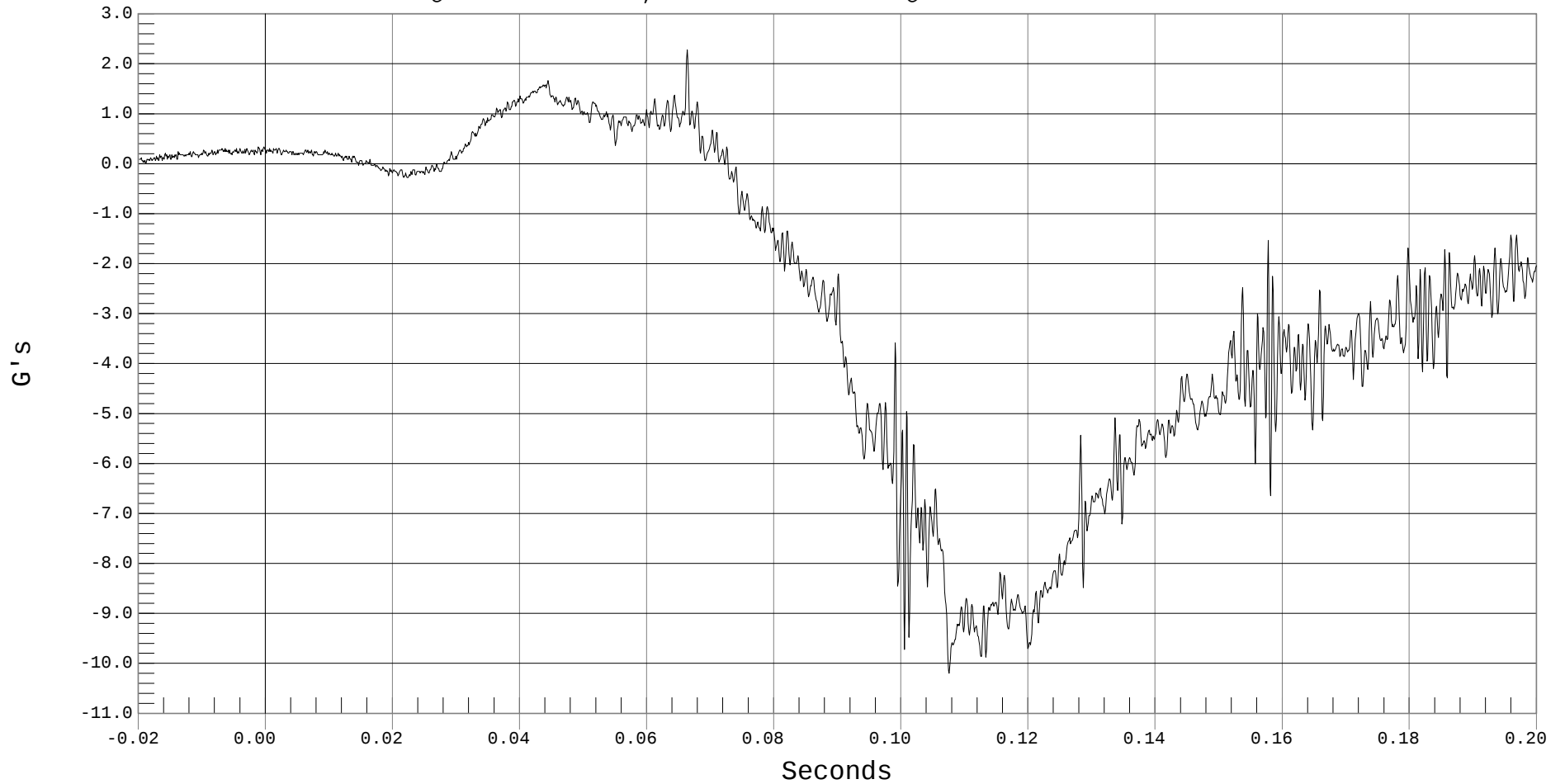
LEFT REAR HEAD X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD HEAD X, B01071AT.A60

Ymin = -10.2 G's @ 0.1075 Seconds, Ymax = 2.28 G's @ 0.0663 Seconds





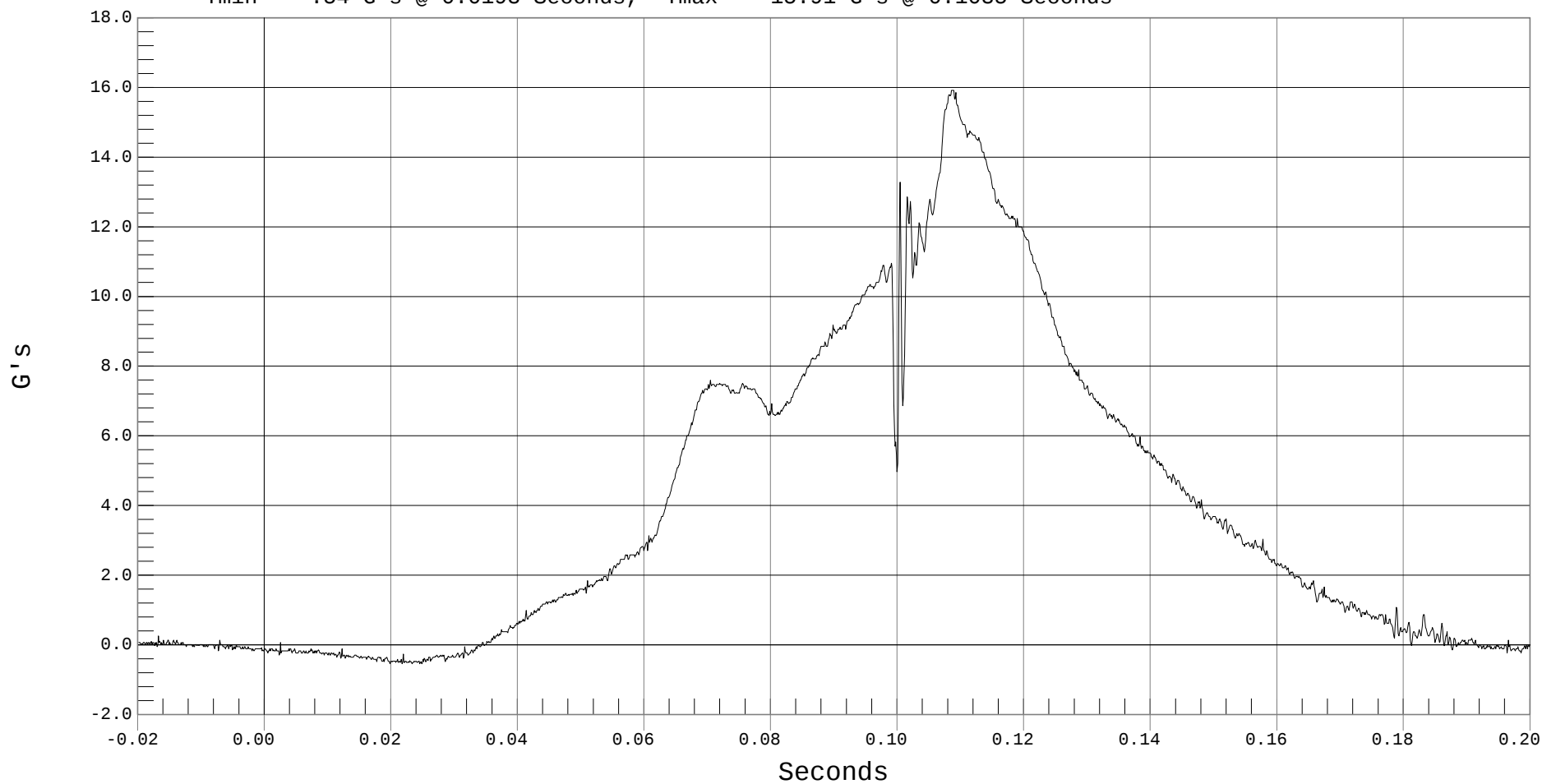
LEFT REAR HEAD Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD HEAD Y, B01071AT.A61

Ymin = -.54 G's @ 0.0198 Seconds, Ymax = 15.91 G's @ 0.1085 Seconds





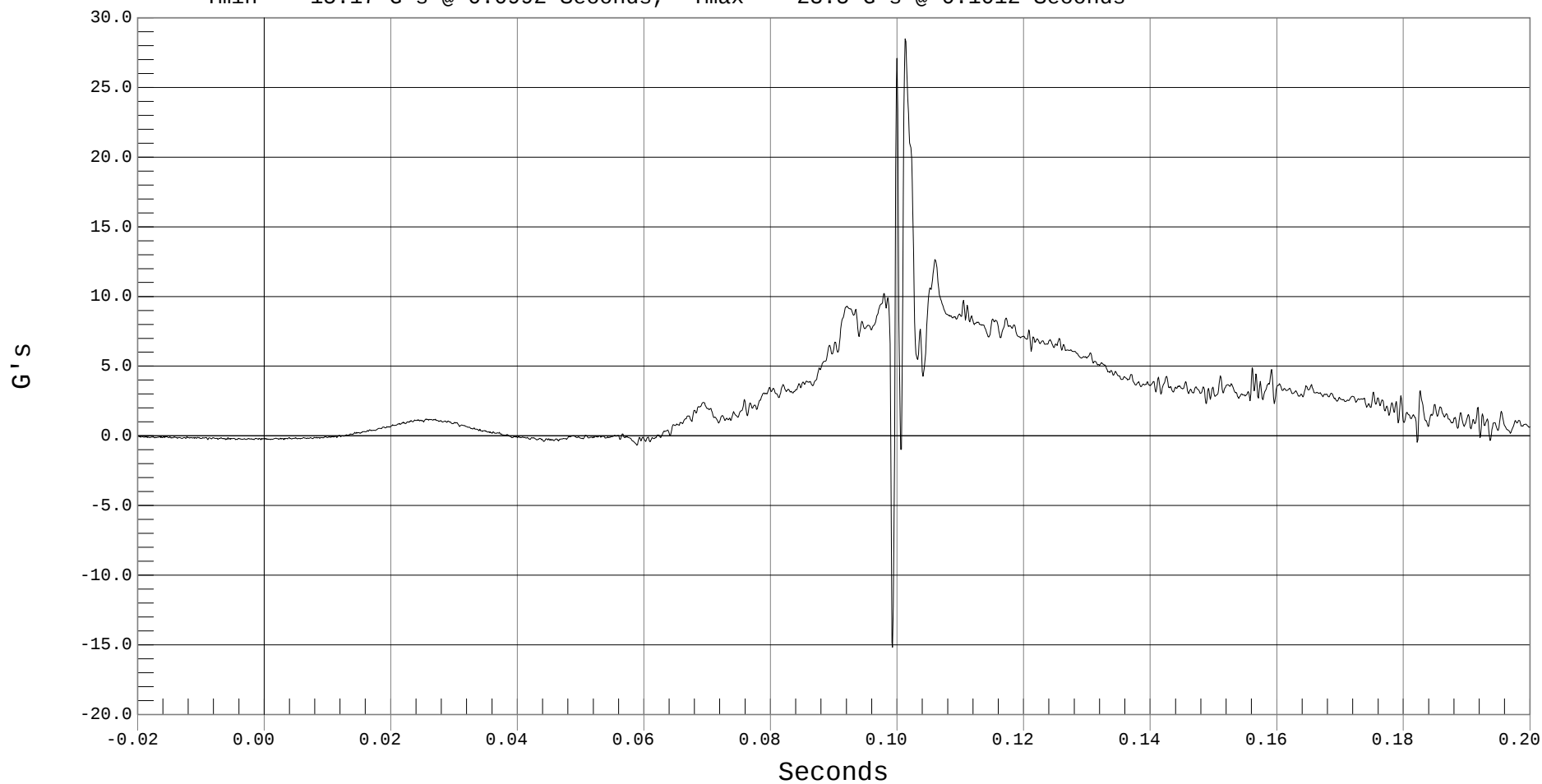
LEFT REAR HEAD Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD HEAD Z, B01071AT.A62

Ymin = -15.17 G's @ 0.0992 Seconds, Ymax = 28.5 G's @ 0.1012 Seconds





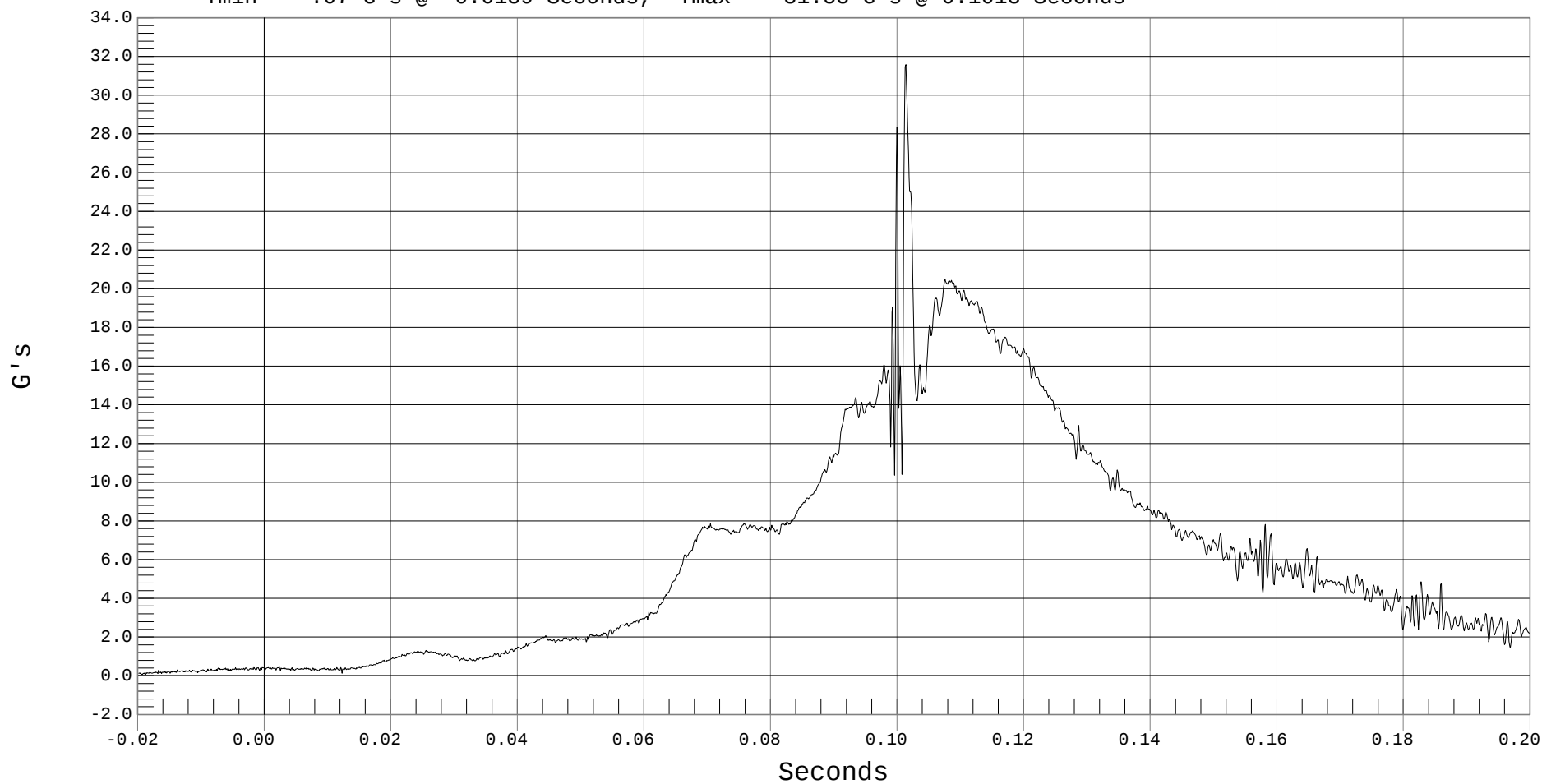
LEFT REAR HEAD RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR HEAD RESULTANT, B01071AV.A60

Ymin = .07 G's @ -0.0189 Seconds, Ymax = 31.58 G's @ 0.1013 Seconds





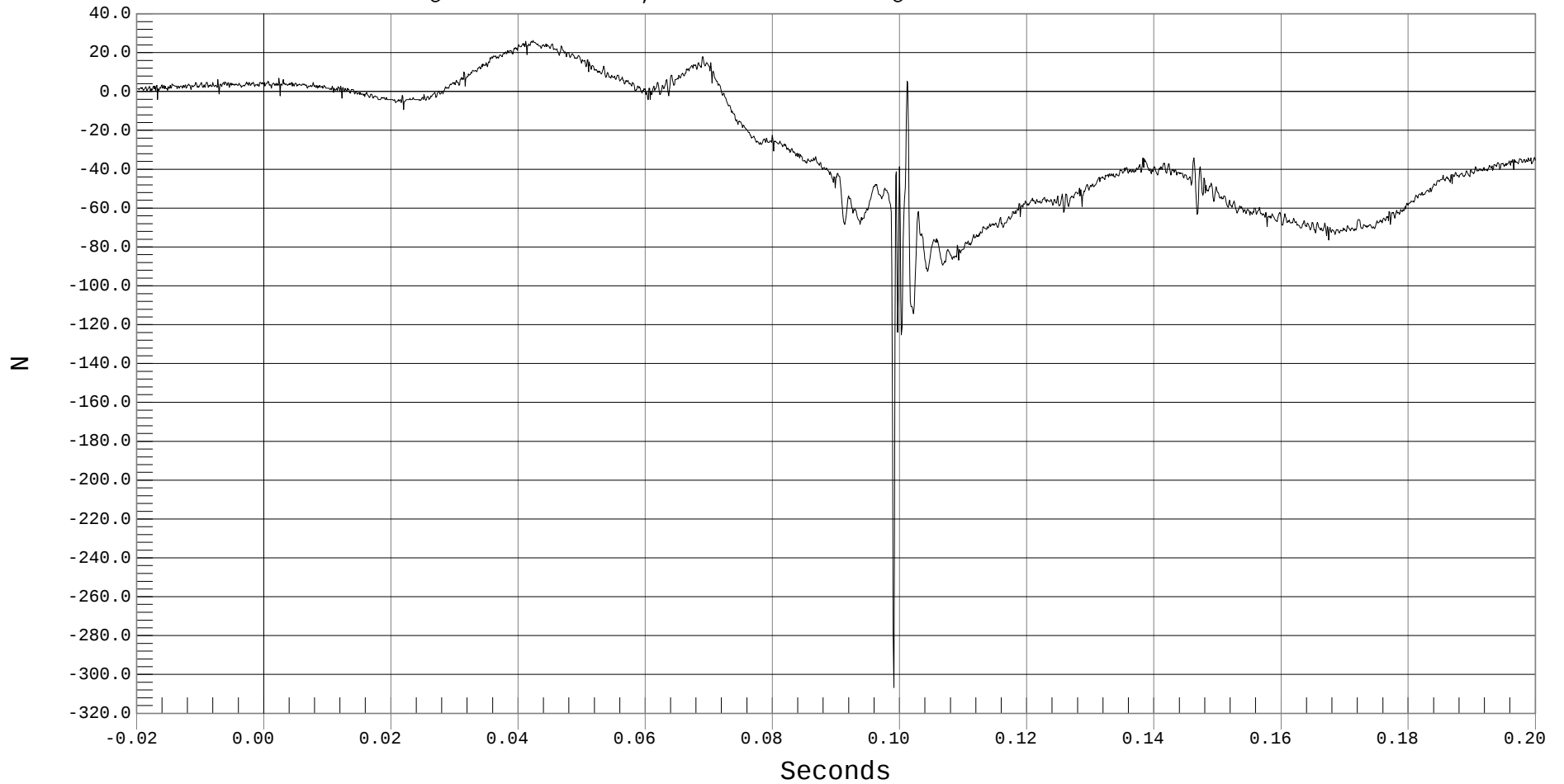
LEFT REAR UPPER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD UPPER NECK FORCE X, B01071FT.F63

Ymin = -306.75 N @ 0.0990 Seconds, Ymax = 26.32 N @ 0.0423 Seconds





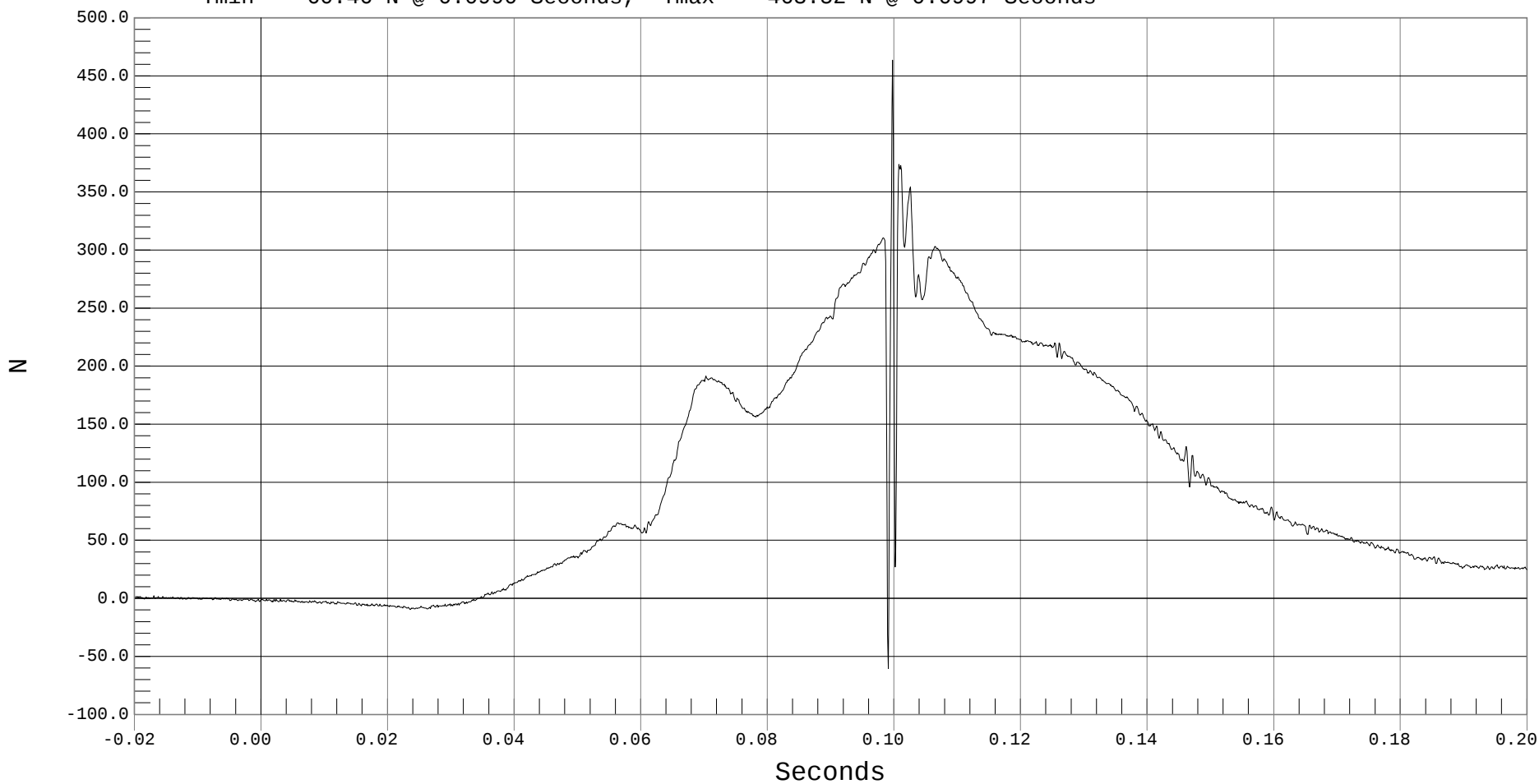
LEFT REAR UPPER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD UPPER NECK FORCE Y, B01071FT.F65

Ymin = -60.46 N @ 0.0990 Seconds, Ymax = 463.52 N @ 0.0997 Seconds





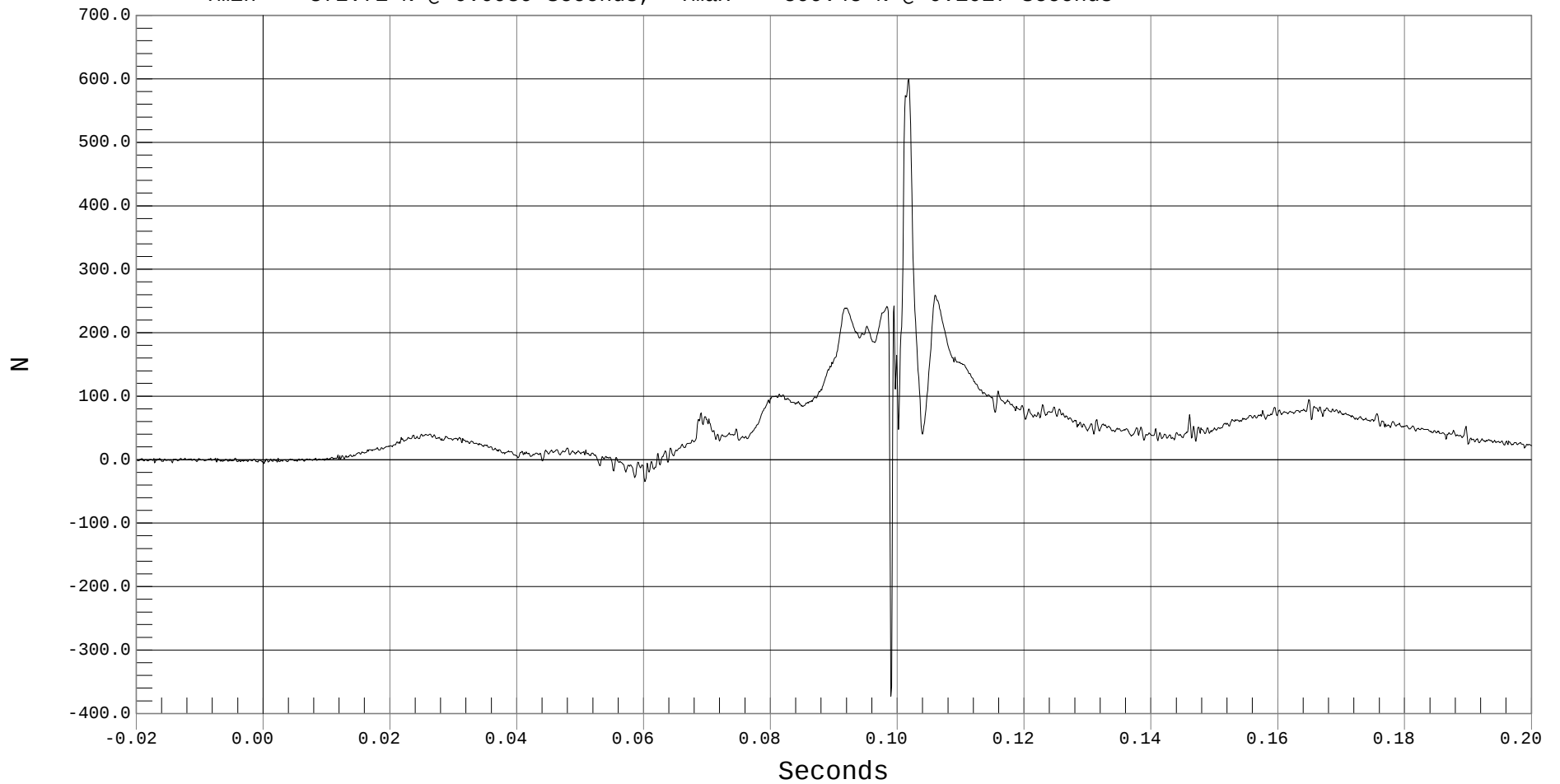
LEFT REAR UPPER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD UPPER NECK FORCE Z, B01071FT.F66

Ymin = -372.71 N @ 0.0989 Seconds, Ymax = 599.45 N @ 0.1017 Seconds





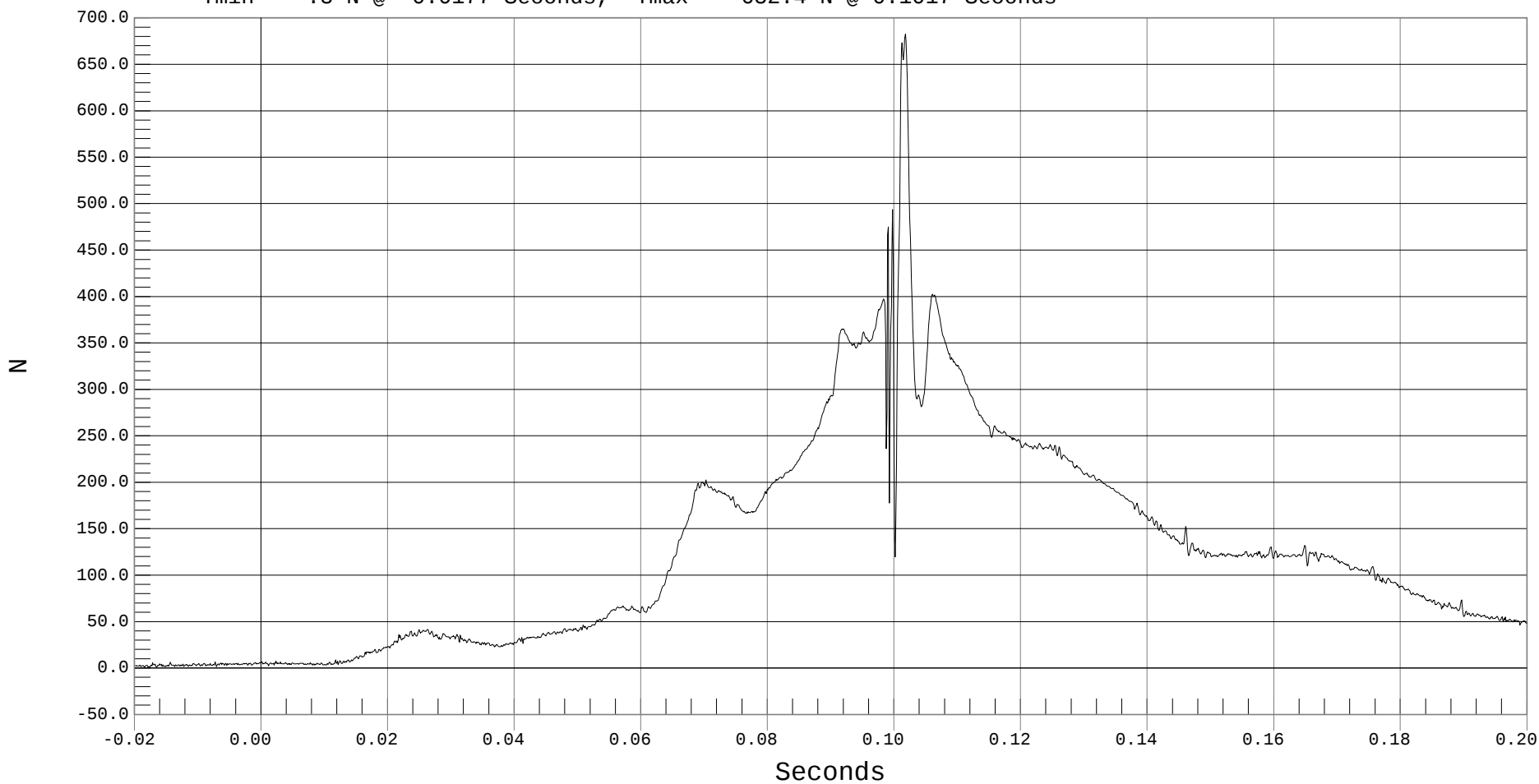
LEFT REAR UPPER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR UPPER NECK FORCE RESULTANT, B01071FV.F63

Ymin = .8 N @ -0.0177 Seconds, Ymax = 682.4 N @ 0.1017 Seconds





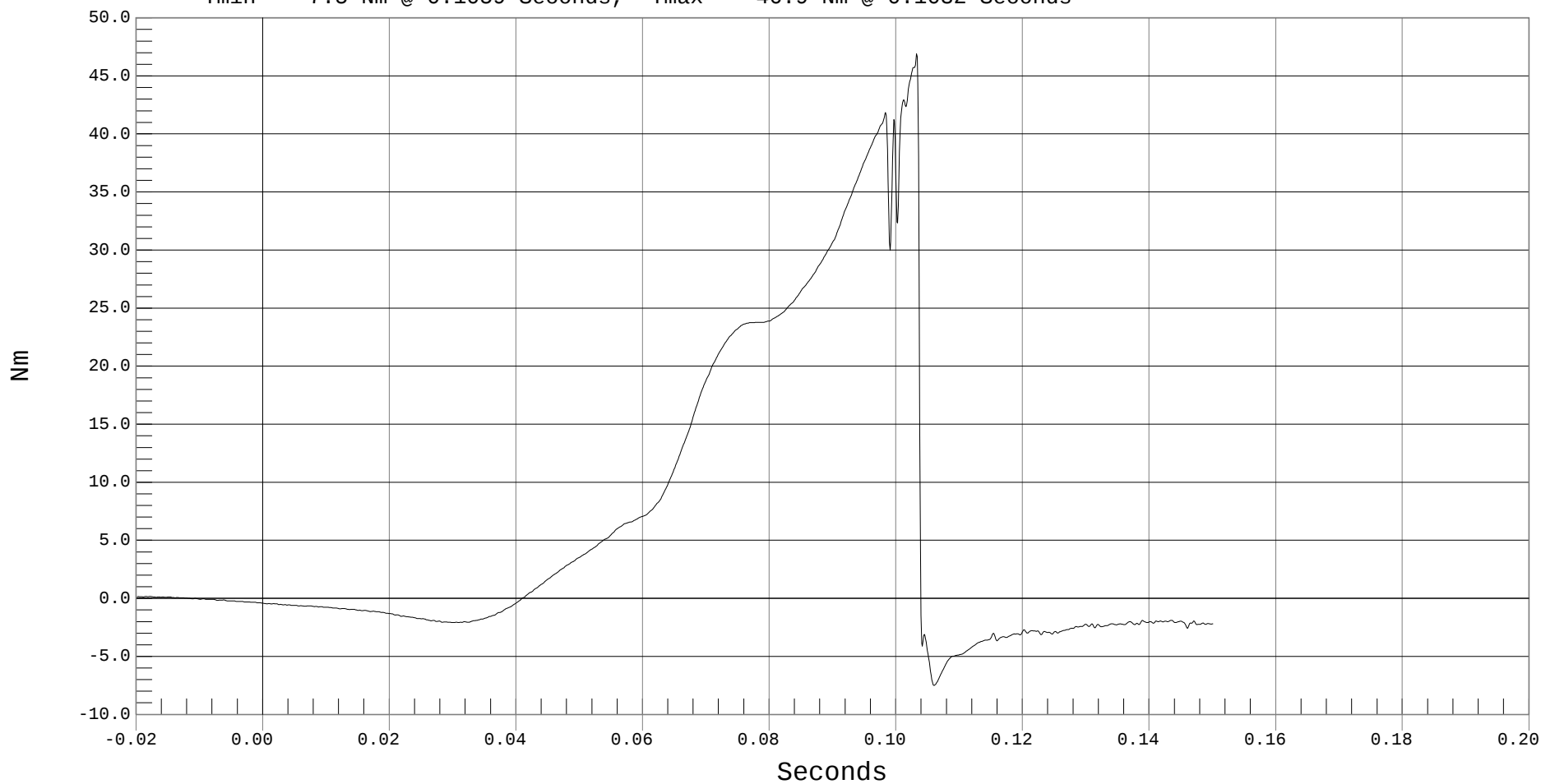
LEFT REAR UPPER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD UPPER NECK MOMENT X, B01071MF.M67

Ymin = -7.5 Nm @ 0.1059 Seconds, Ymax = 46.9 Nm @ 0.1032 Seconds





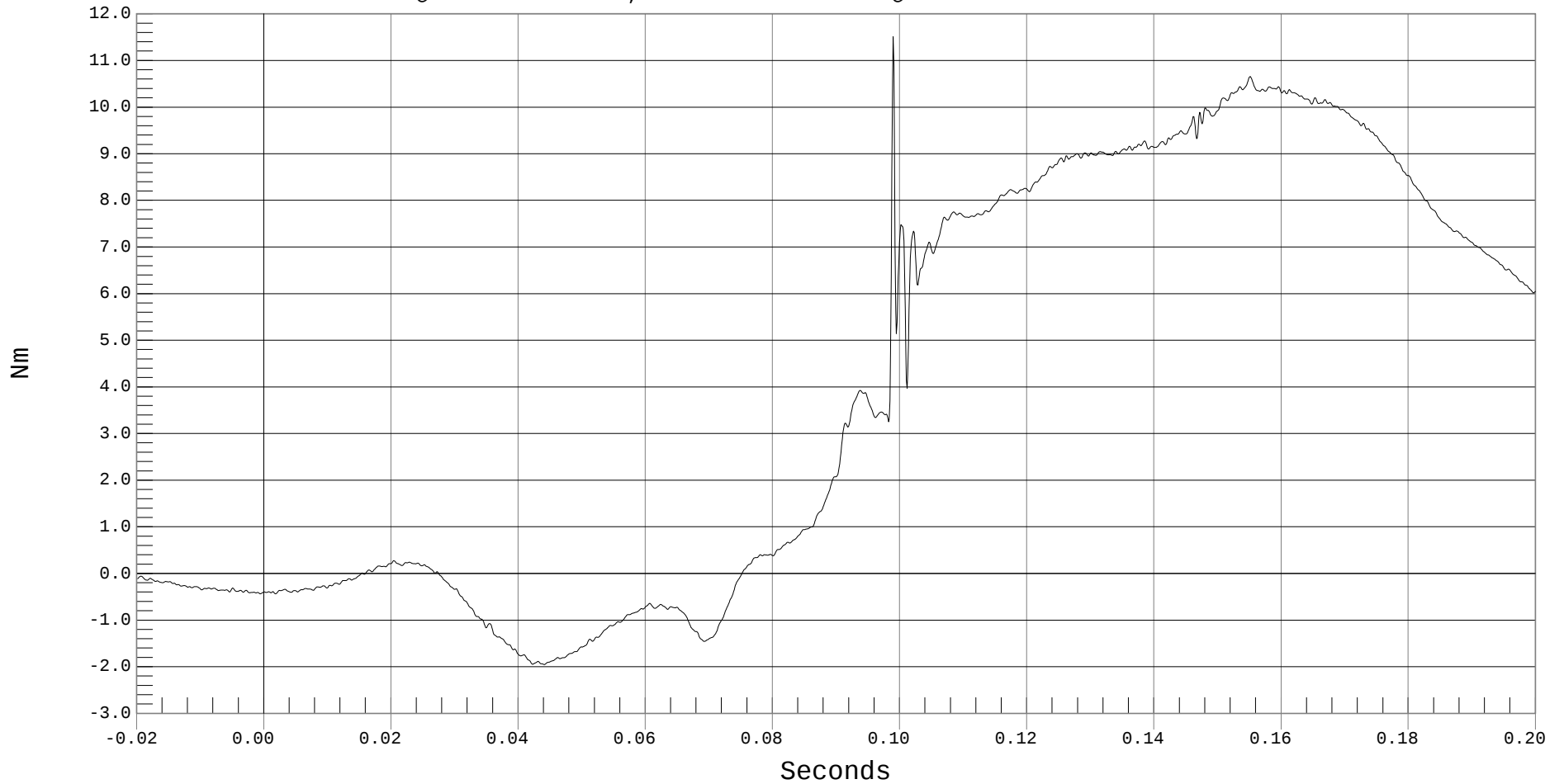
LEFT REAR UPPER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD UPPER NECK MOMENT Y, B01071MF.M68

Ymin = -1.95 Nm @ 0.0440 Seconds, Ymax = 11.51 Nm @ 0.0989 Seconds





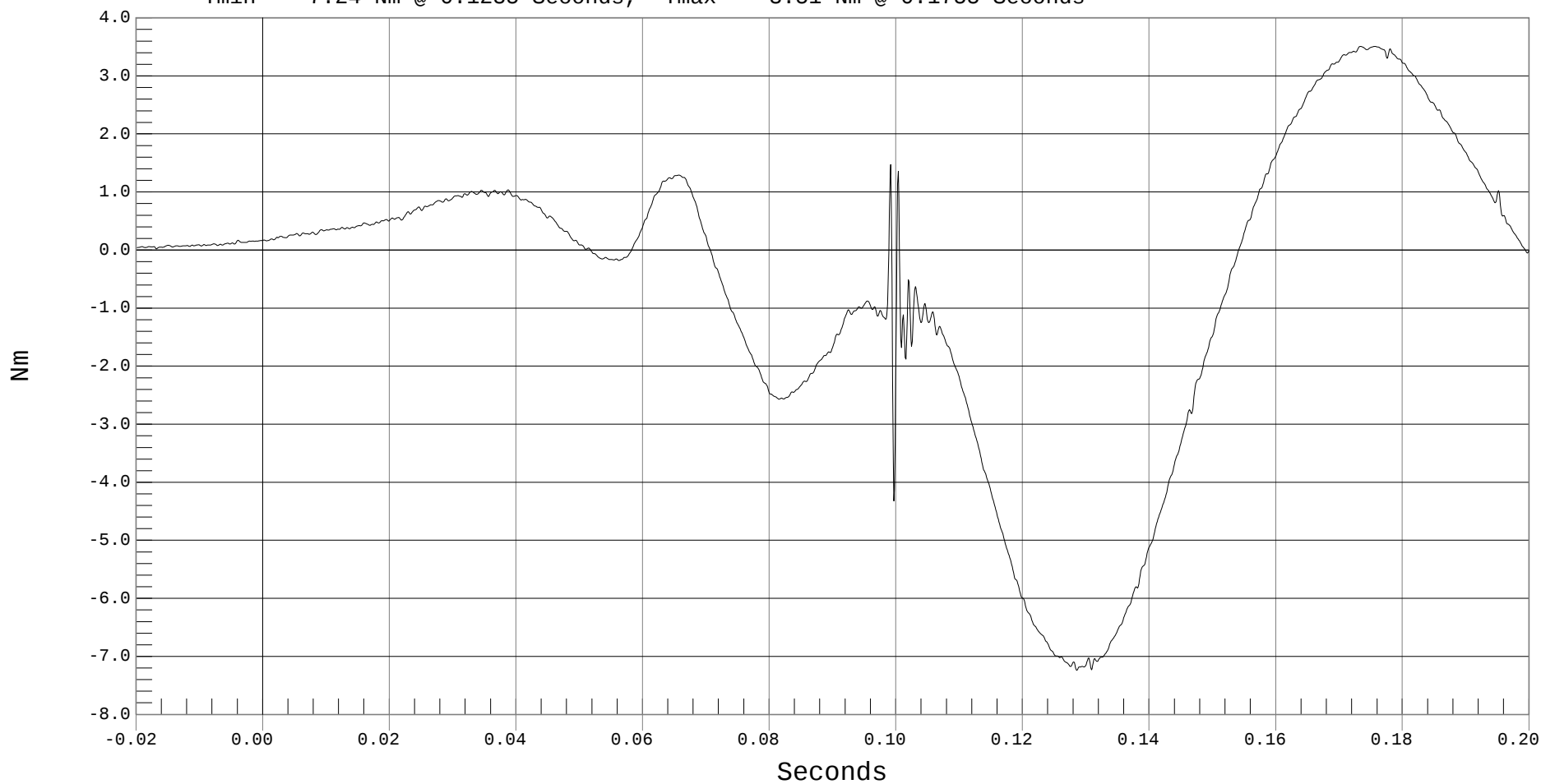
LEFT REAR UPPER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD UPPER NECK MOMENT Z, B01071MF.M69

Ymin = -7.24 Nm @ 0.1285 Seconds, Ymax = 3.51 Nm @ 0.1755 Seconds





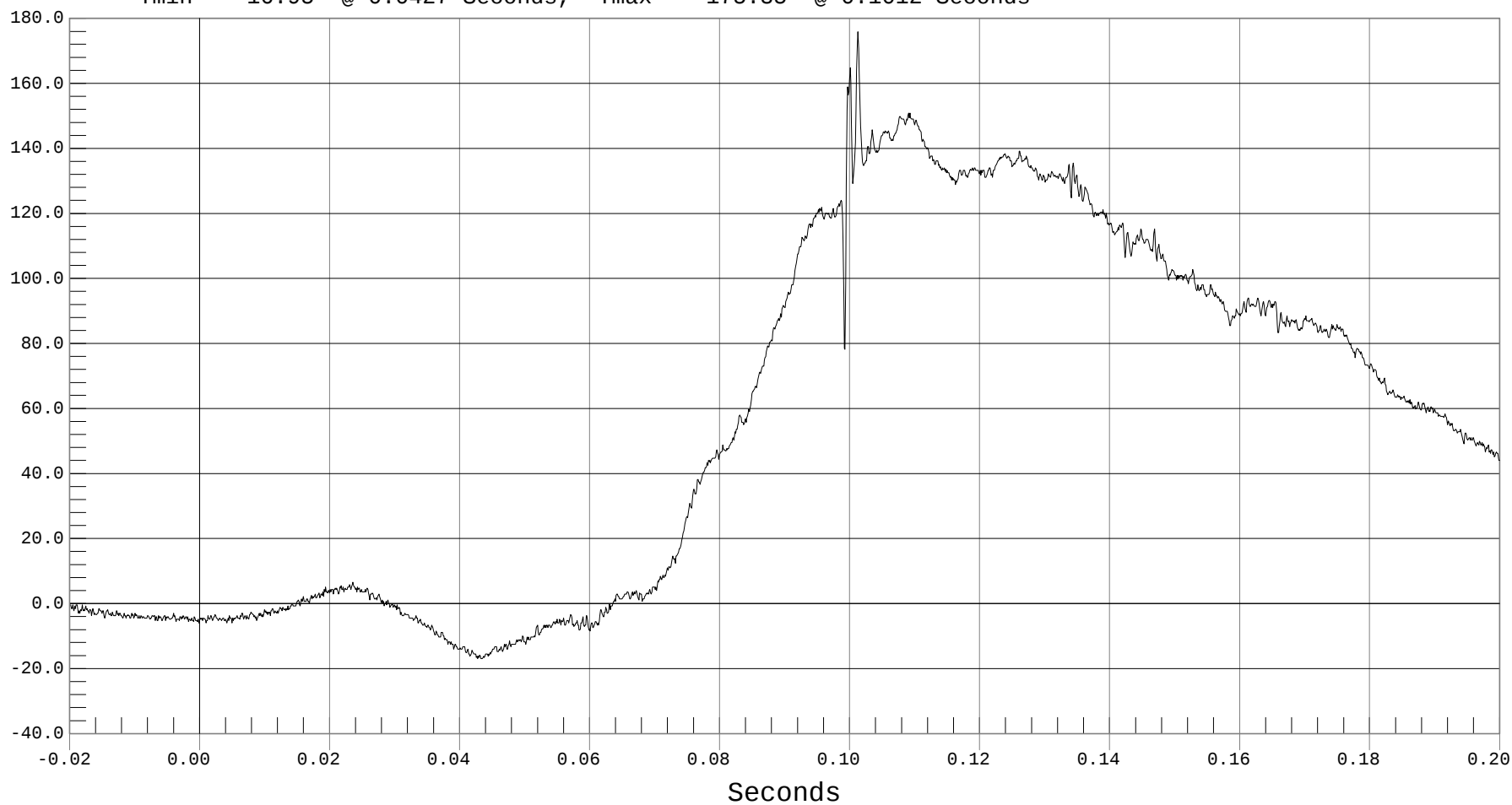
LEFT REAR LOWER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD LOWER NECK FORCE X, B01071FT.F70

Ymin = -16.95 @ 0.0427 Seconds, Ymax = 175.85 @ 0.1012 Seconds





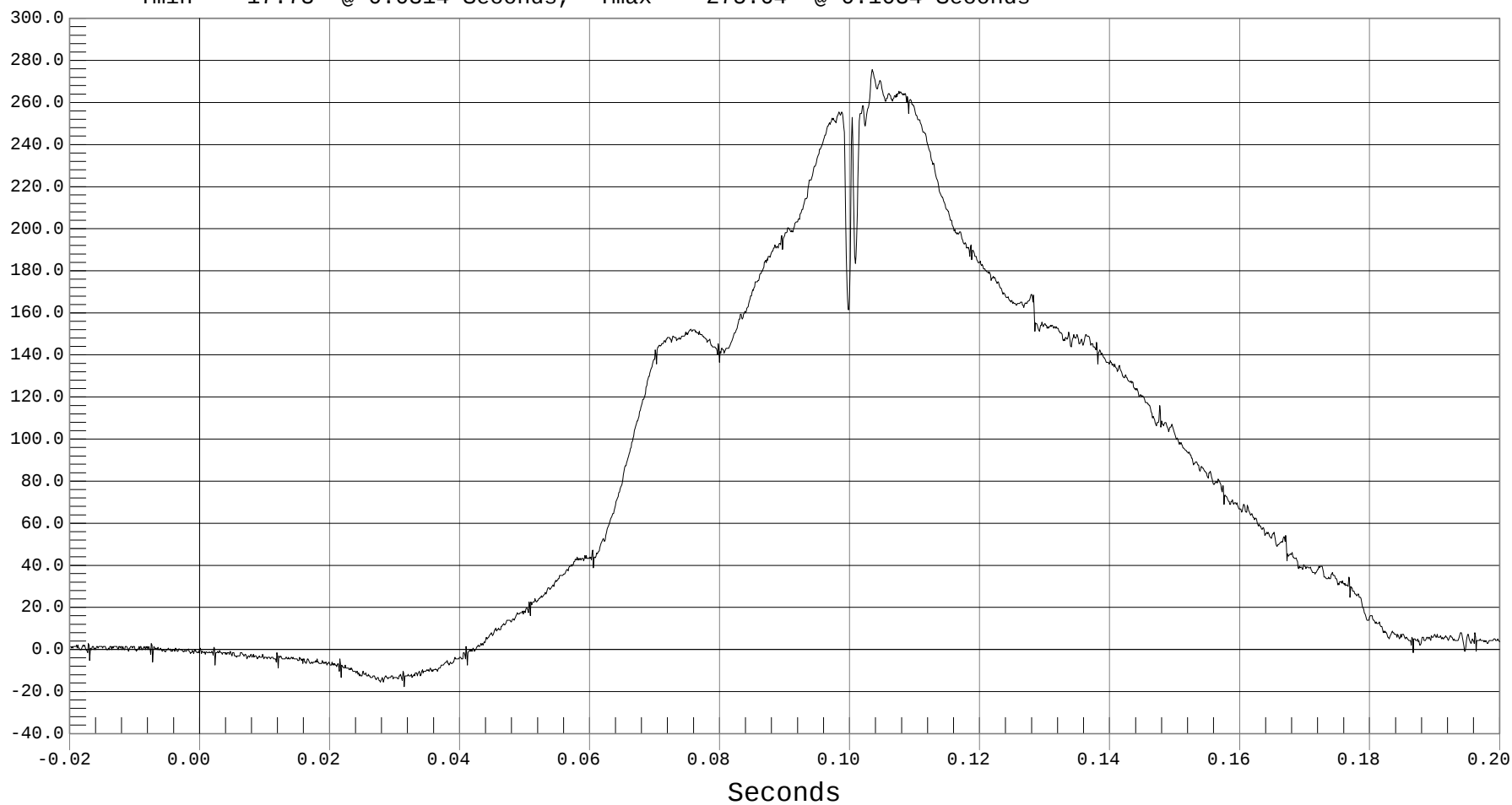
LEFT REAR LOWER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD LOWER NECK FORCE Y, B01071FT.F71

Ymin = -17.73 @ 0.0314 Seconds, Ymax = 275.64 @ 0.1034 Seconds





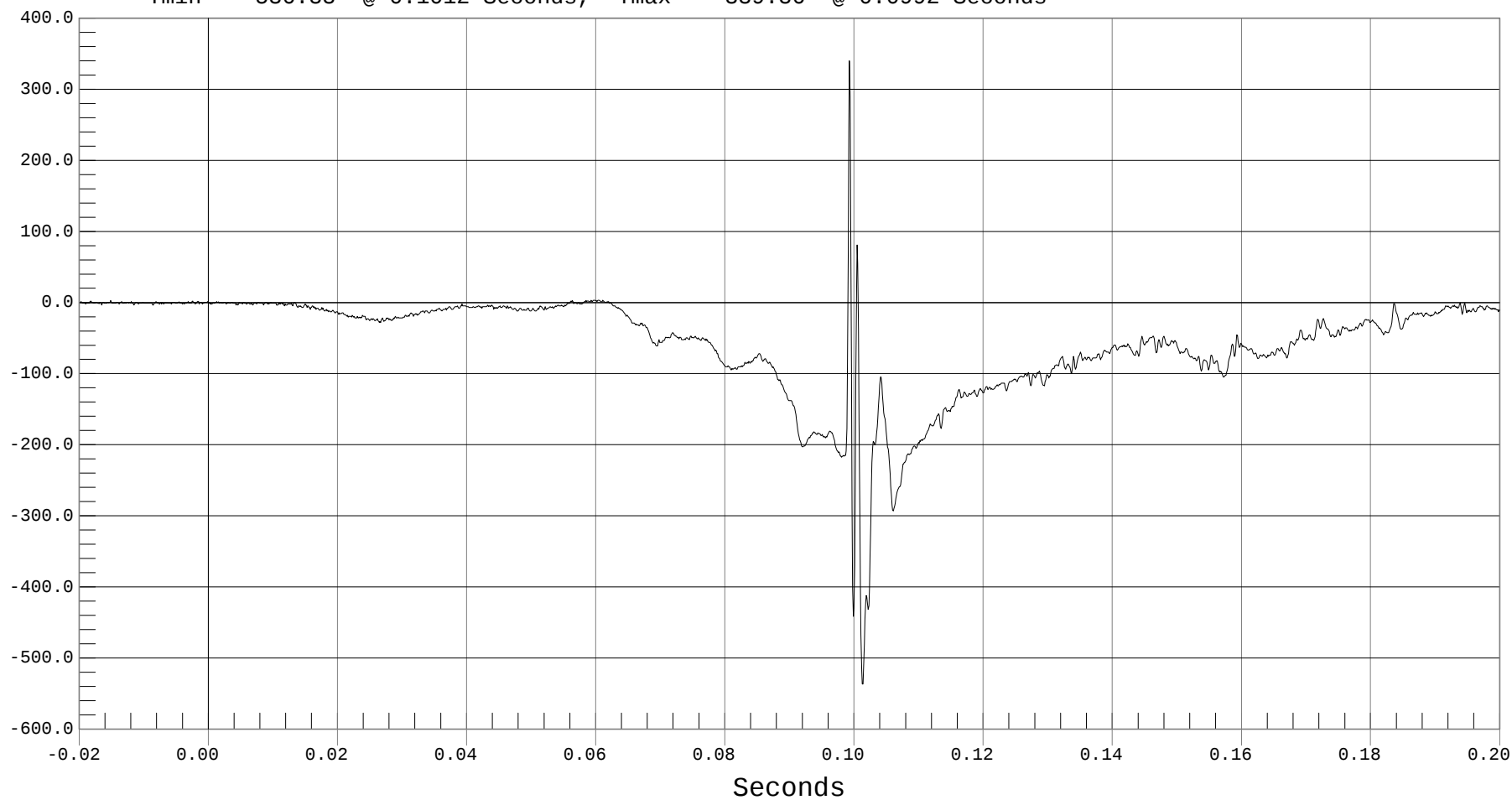
LEFT REAR LOWER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD LOWER NECK FORCE Z, B01071FT.F72

Ymin = -536.88 @ 0.1012 Seconds, Ymax = 339.86 @ 0.0992 Seconds





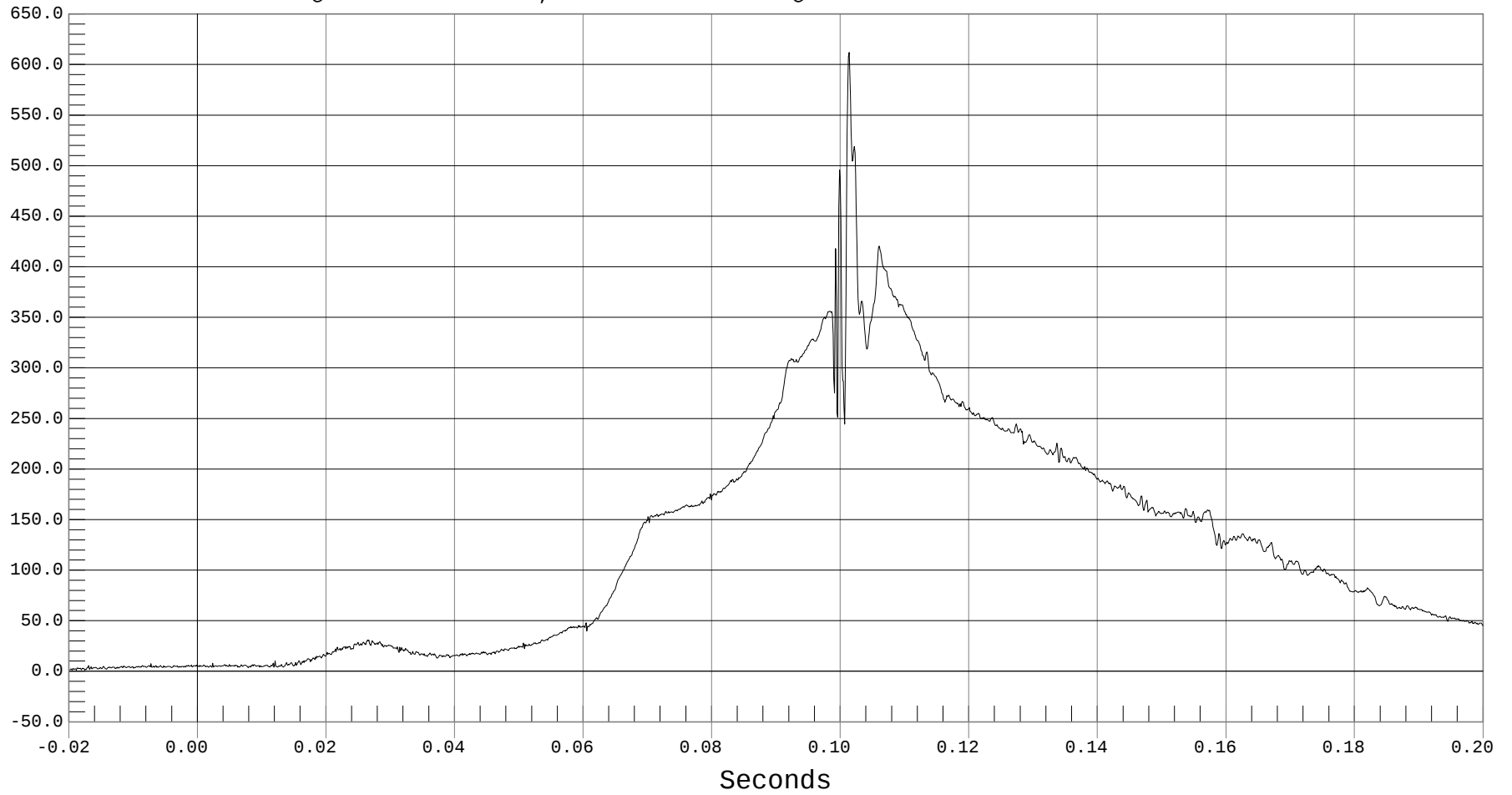
LEFT REAR LOWER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR LOWER NECK FORCE RESULTANT, B01071FV.F70

Ymin = 1.2 @ -0.0196 Seconds, Ymax = 612.07 @ 0.1013 Seconds





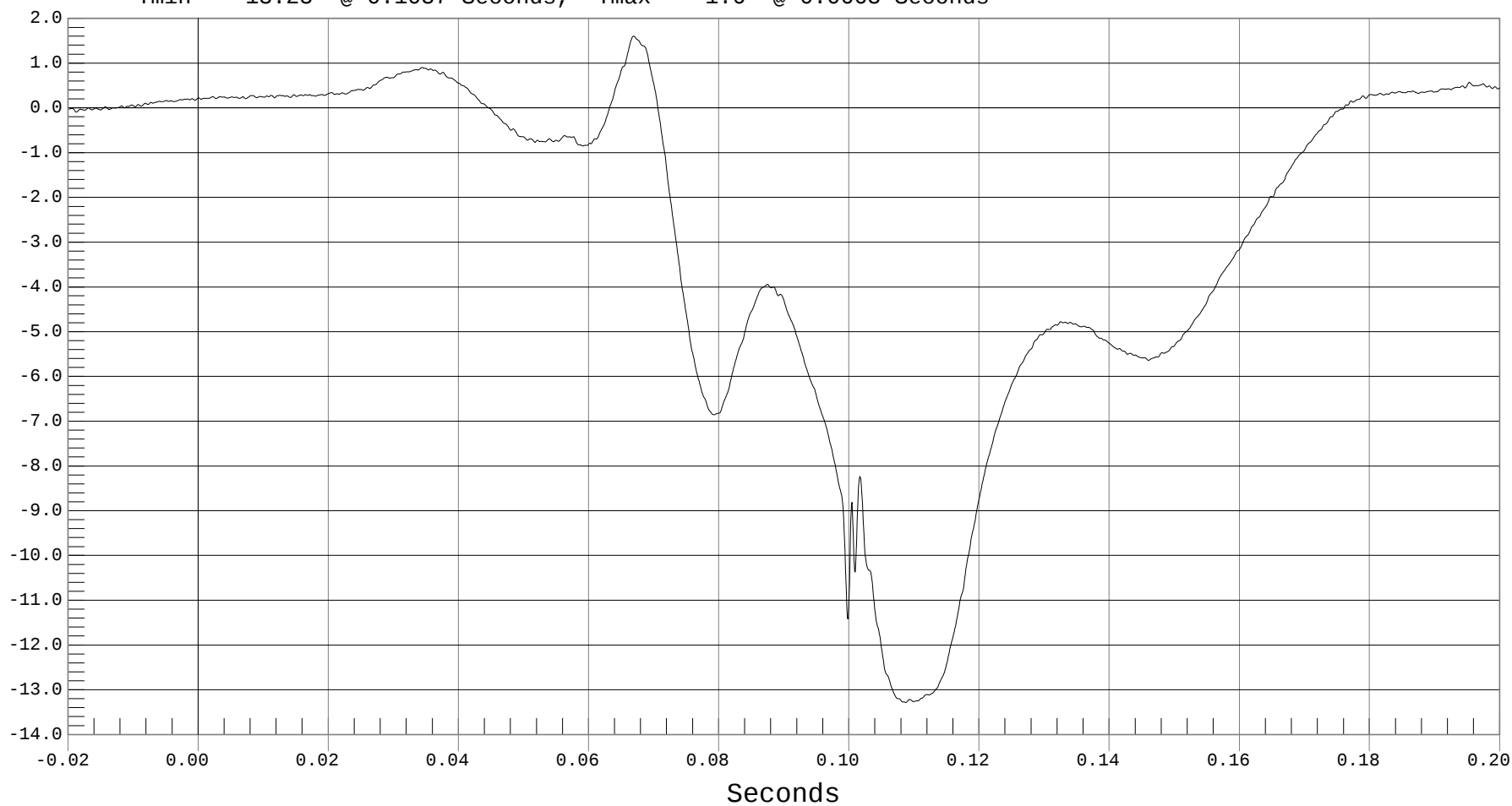
LEFT REAR LOWER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD LOWER NECK MOMENT X, B01071MF.M73

Ymin = -13.28 @ 0.1087 Seconds, Ymax = 1.6 @ 0.0668 Seconds





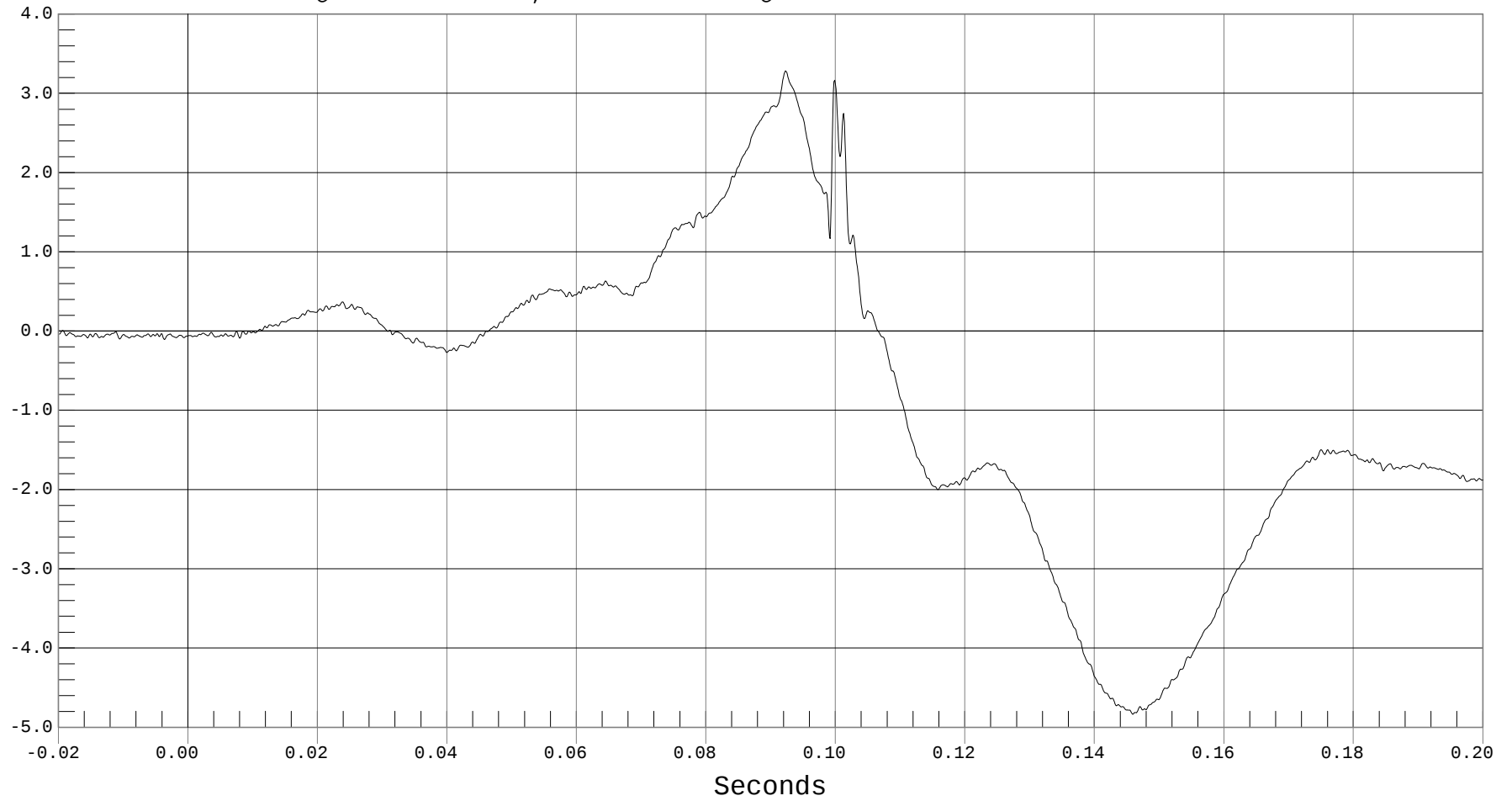
LEFT REAR LOWER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD LOWER NECK MOMENT Y, B01071MF.M74

Ymin = -4.83 @ 0.1458 Seconds, Ymax = 3.28 @ 0.0922 Seconds





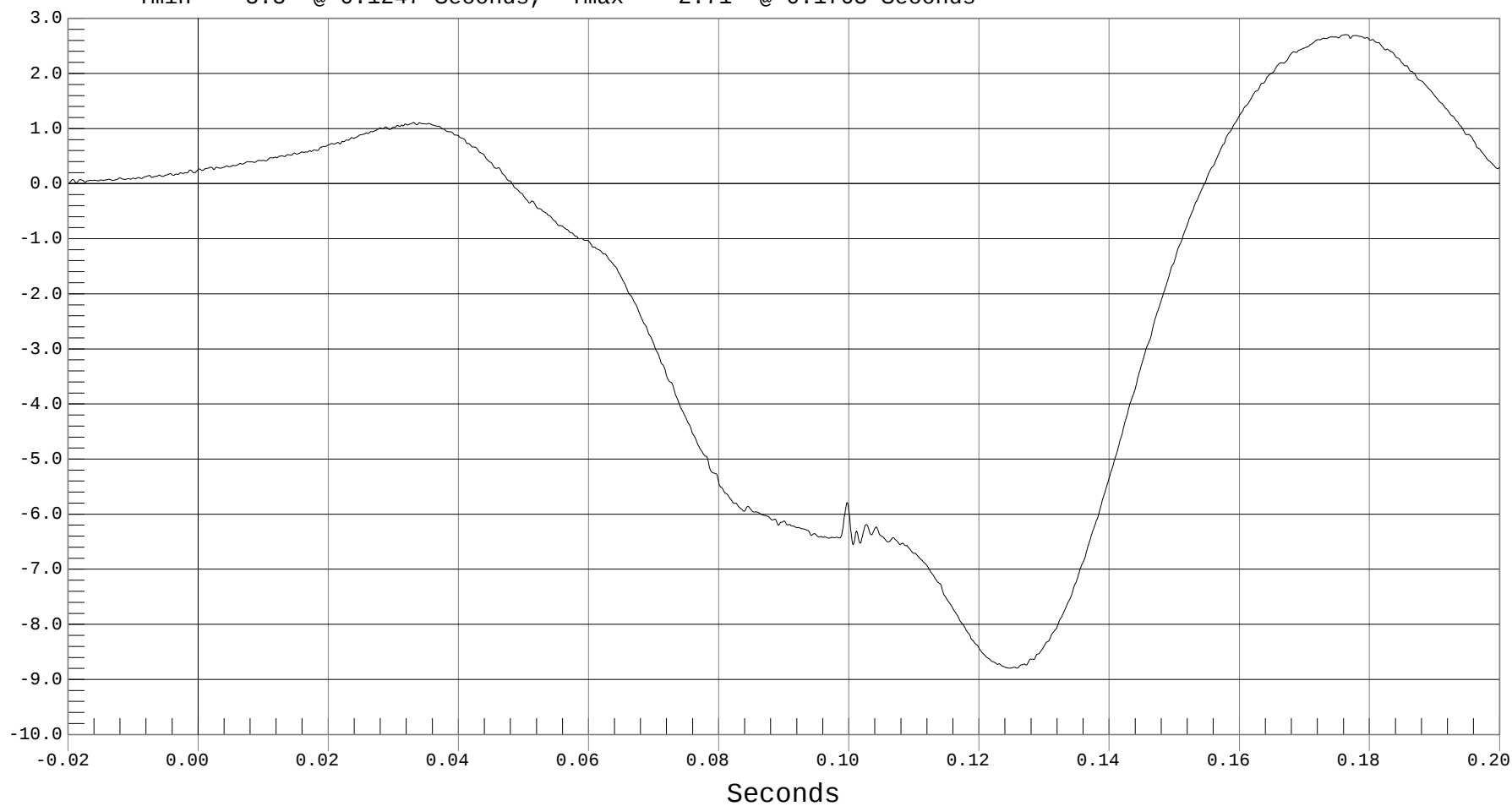
LEFT REAR LOWER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR CHILD LOWER NECK MOMENT Z, B01071MF.M75

Ymin = -8.8 @ 0.1247 Seconds, Ymax = 2.71 @ 0.1763 Seconds





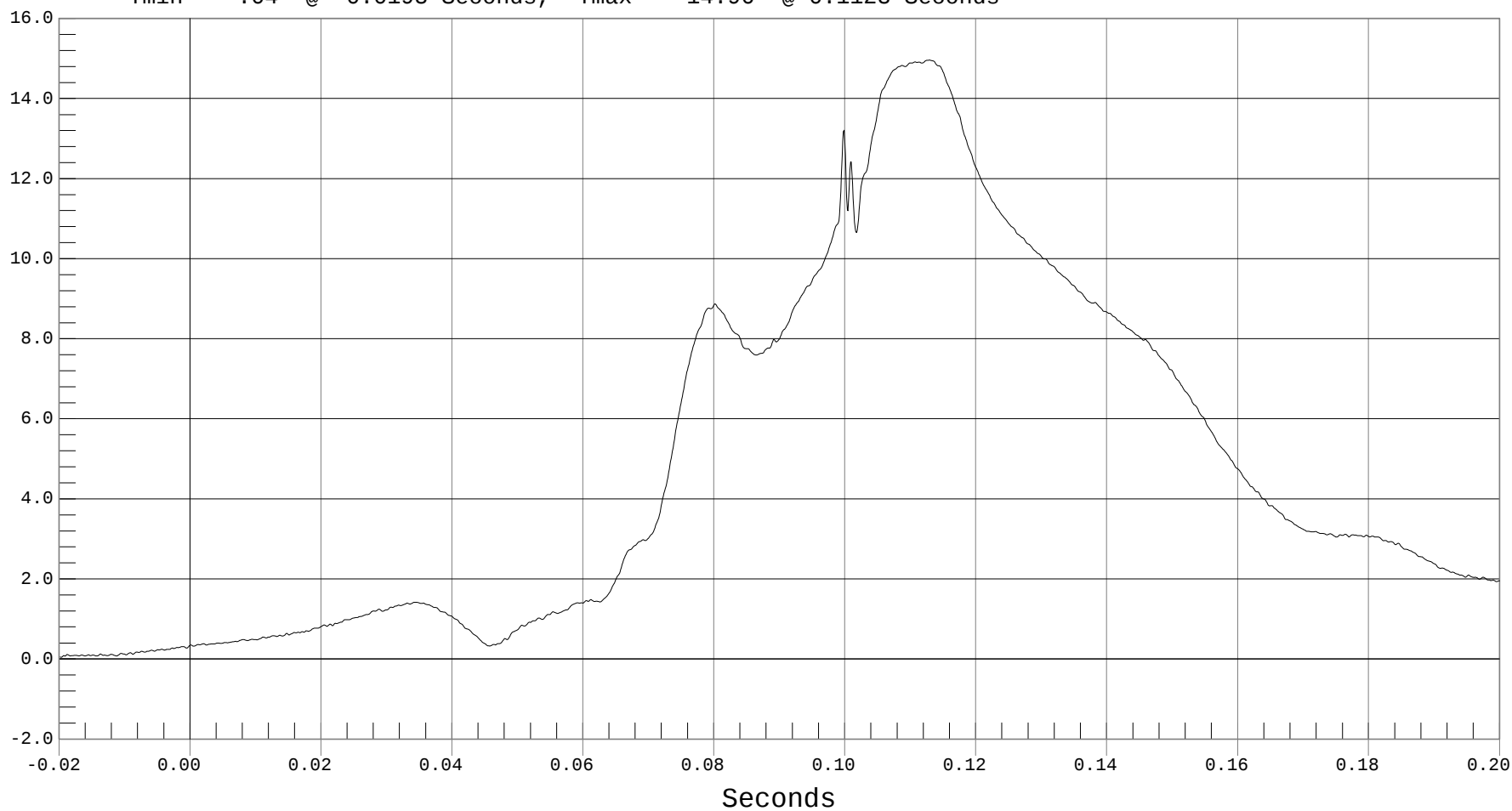
LEFT REAR LOWER NECK MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 LEFT REAR LOWER NECK MOMENT RESULTANT, B01071MV.M73

Ymin = .04 @ -0.0198 Seconds, Ymax = 14.96 @ 0.1128 Seconds





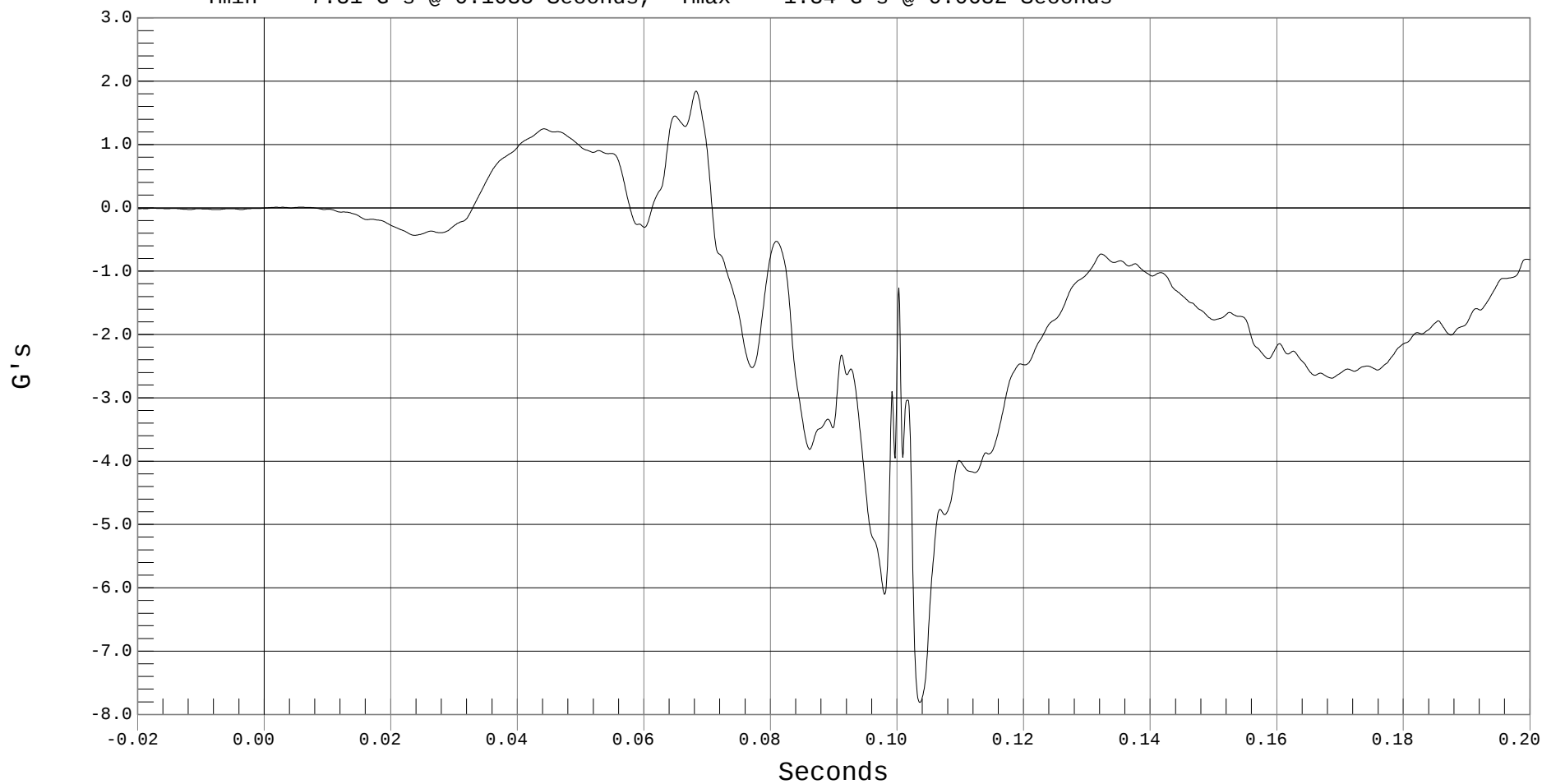
LEFT REAR CHEST X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 LEFT REAR CHILD CHEST X, B01071AF.A76

Ymin = -7.81 G's @ 0.1035 Seconds, Ymax = 1.84 G's @ 0.0682 Seconds





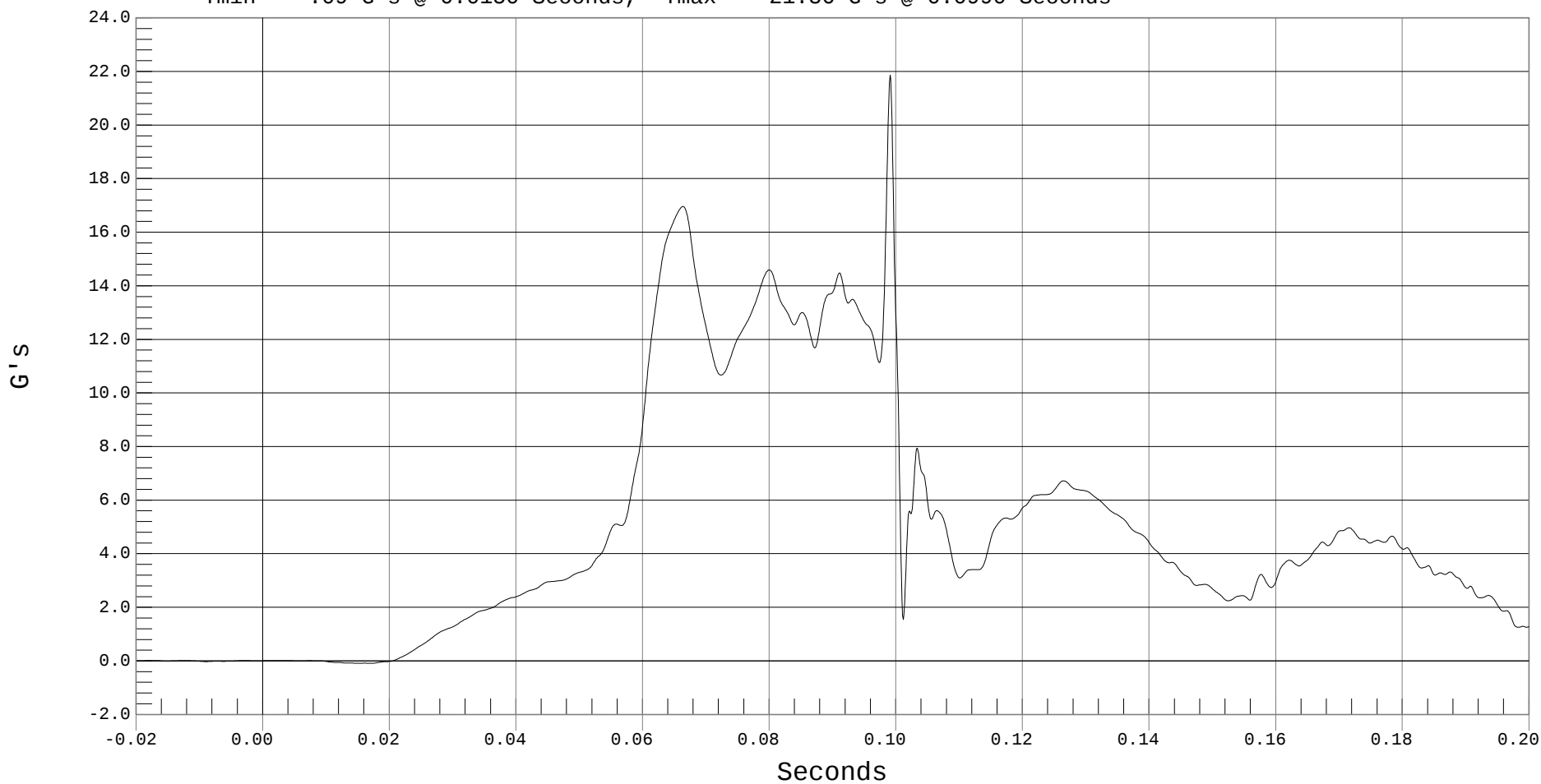
LEFT REAR CHEST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 LEFT REAR CHILD CHEST Y, B01071AF.A77

Ymin = -.09 G's @ 0.0150 Seconds, Ymax = 21.86 G's @ 0.0990 Seconds





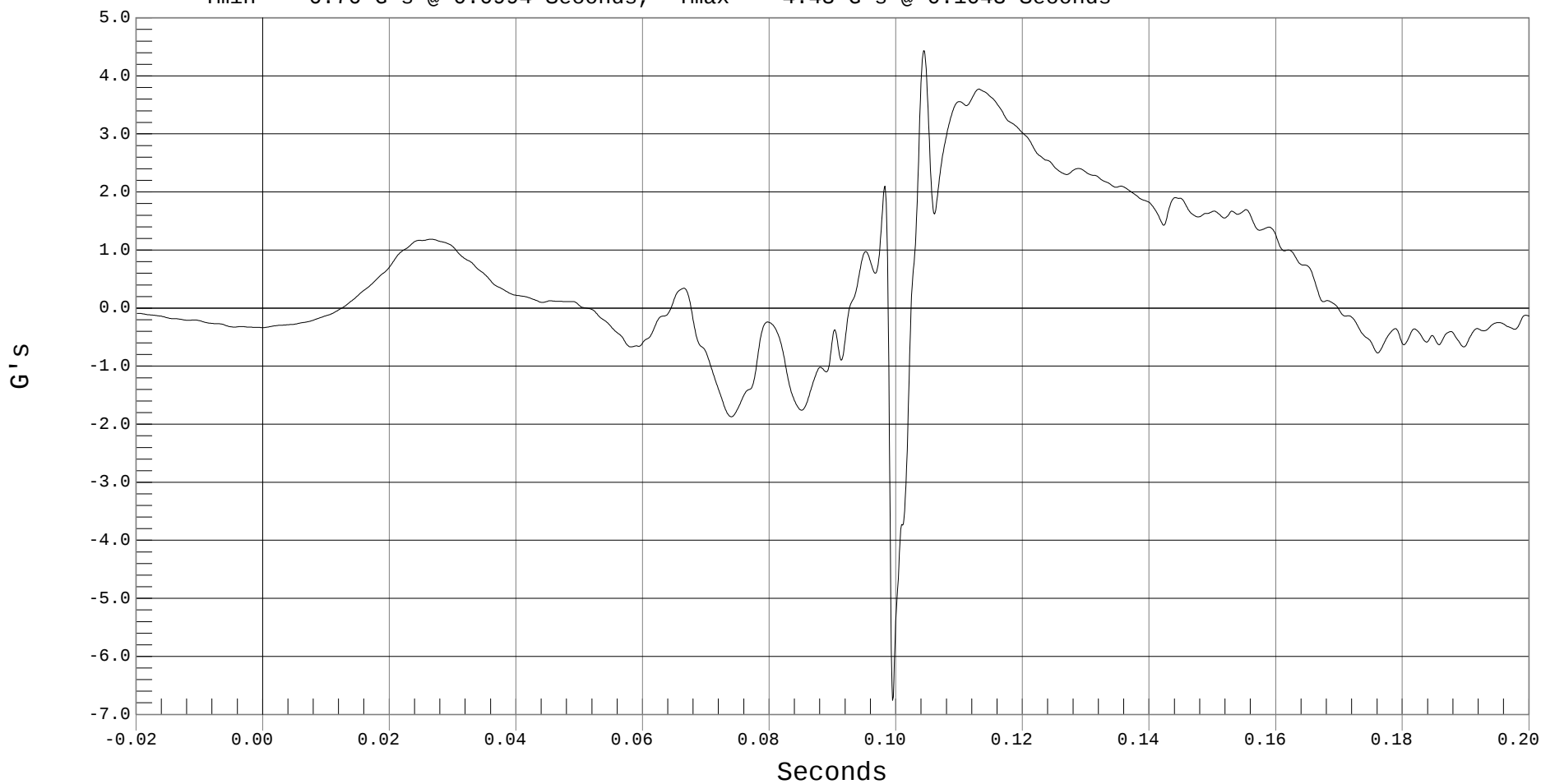
LEFT REAR CHEST Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 LEFT REAR CHILD CHEST Z, B01071AF.A78

Ymin = -6.76 G's @ 0.0994 Seconds, Ymax = 4.43 G's @ 0.1043 Seconds





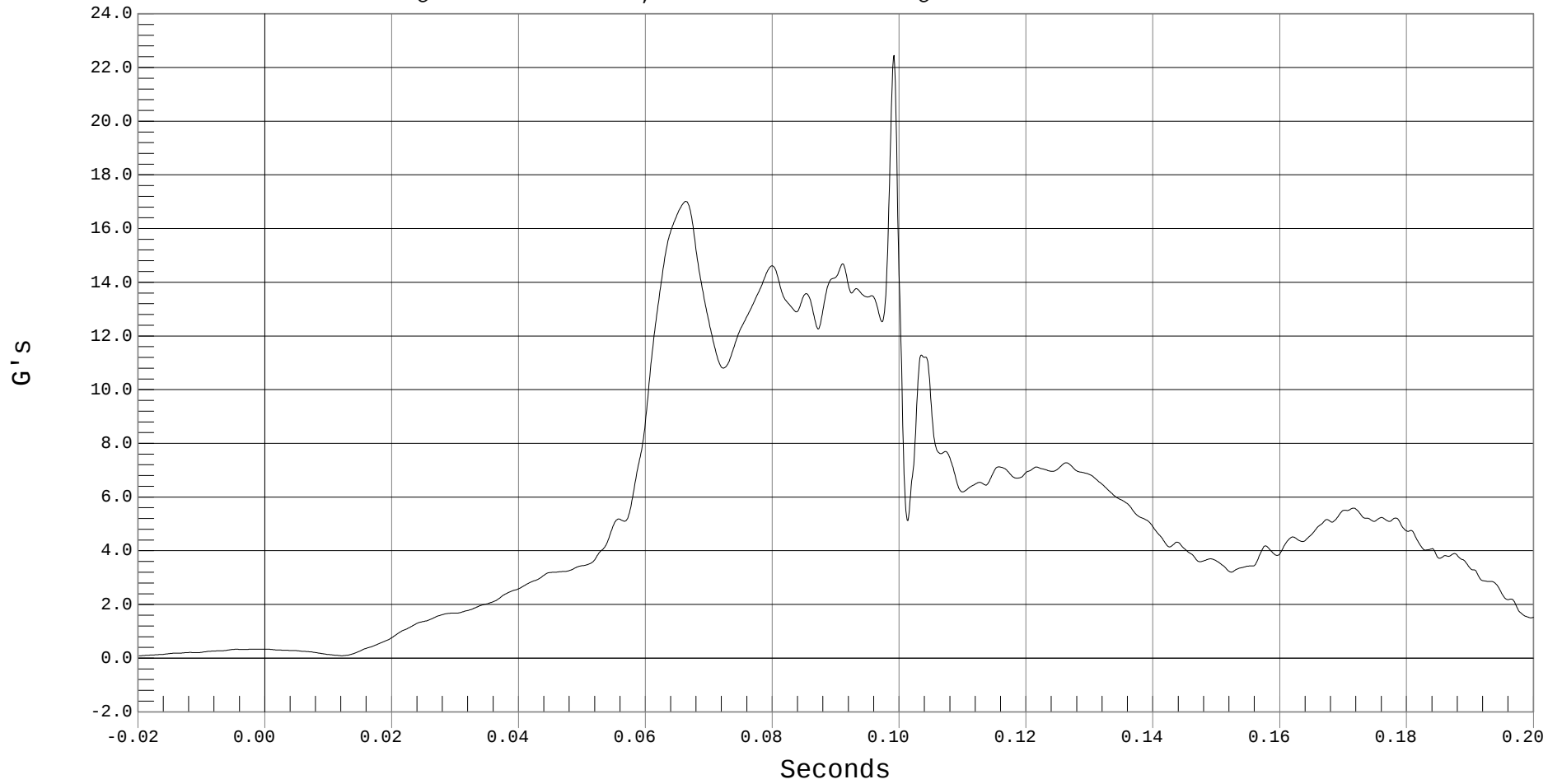
LEFT REAR CHEST RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 LEFT REAR CHEST RESULTANT, B01071AV.A76

Ymin = .09 G's @ -0.0197 Seconds, Ymax = 22.45 G's @ 0.0991 Seconds





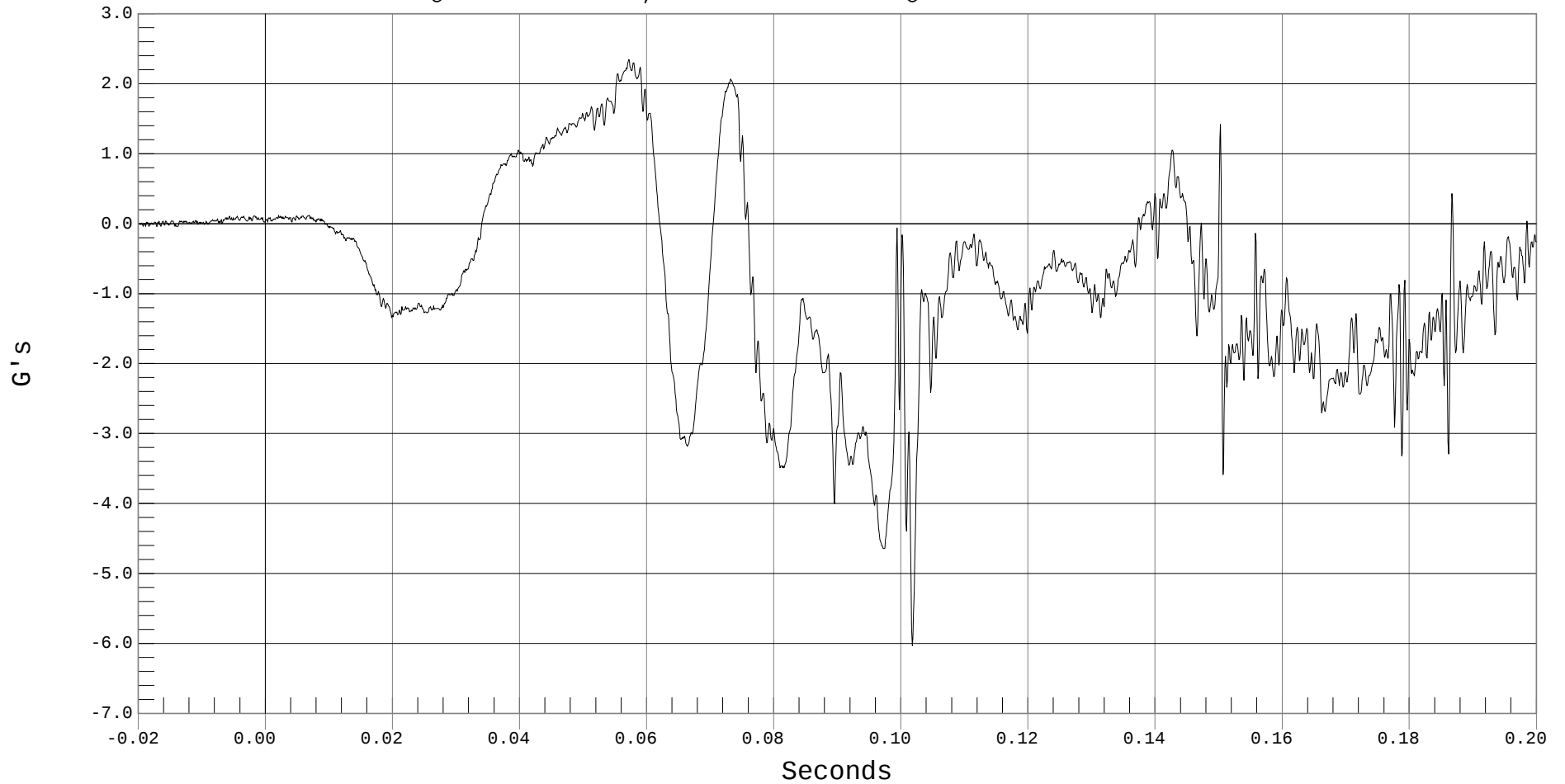
LEFT REAR PELVIS X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD PELVIS X, B01071AT.A80

Ymin = -6.03 G's @ 0.1017 Seconds, Ymax = 2.35 G's @ 0.0571 Seconds





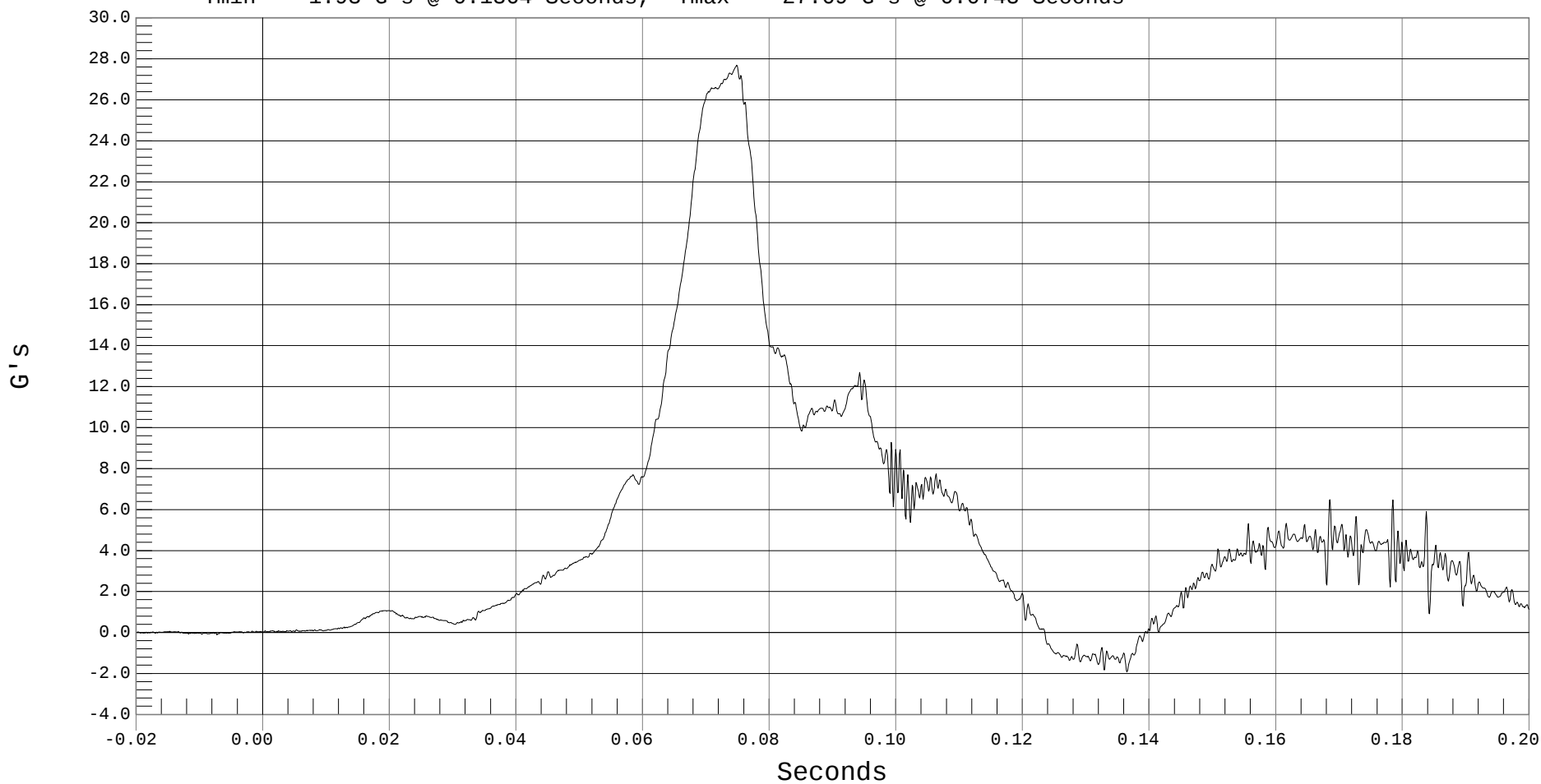
LEFT REAR PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD PELVIS Y, B01071AT.A81

Ymin = -1.93 G's @ 0.1364 Seconds, Ymax = 27.69 G's @ 0.0748 Seconds





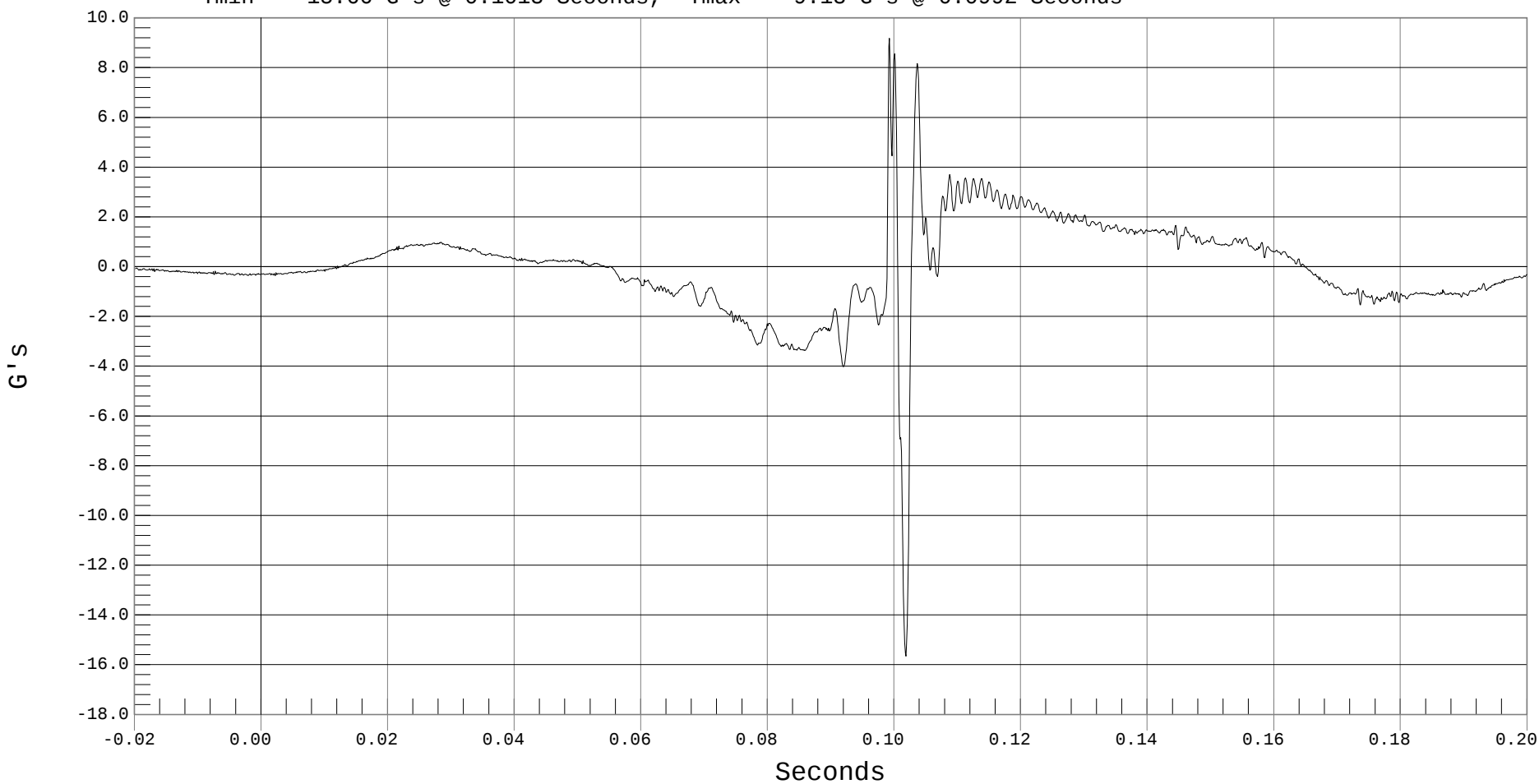
LEFT REAR PELVIS Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 LEFT REAR CHILD PELVIS Z, B01071AT.A82

Ymin = -15.66 G's @ 0.1018 Seconds, Ymax = 9.18 G's @ 0.0992 Seconds





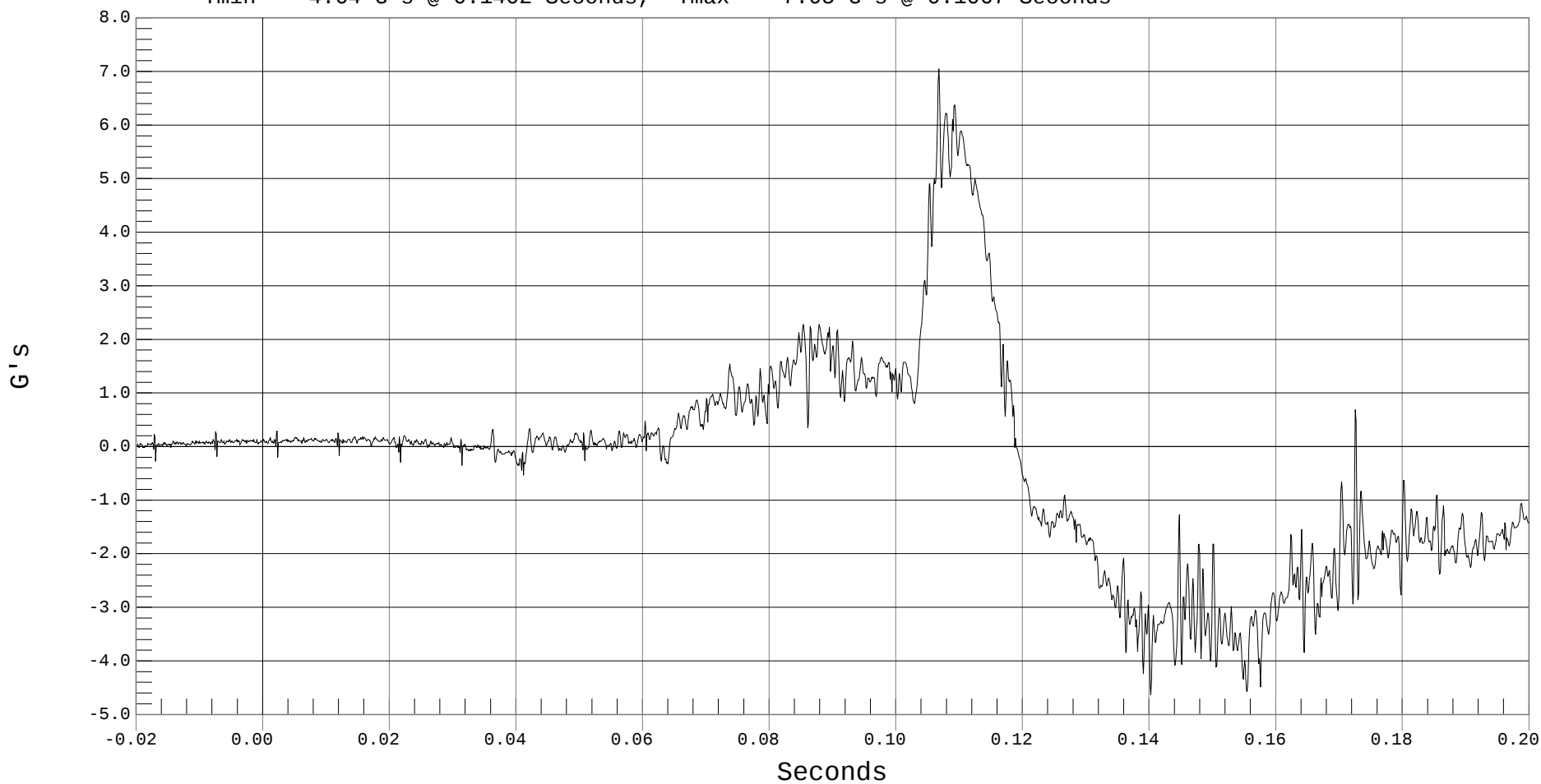
RIGHT REAR HEAD X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD HEAD X, B01071AT.A83

Ymin = -4.64 G's @ 0.1402 Seconds, Ymax = 7.05 G's @ 0.1067 Seconds





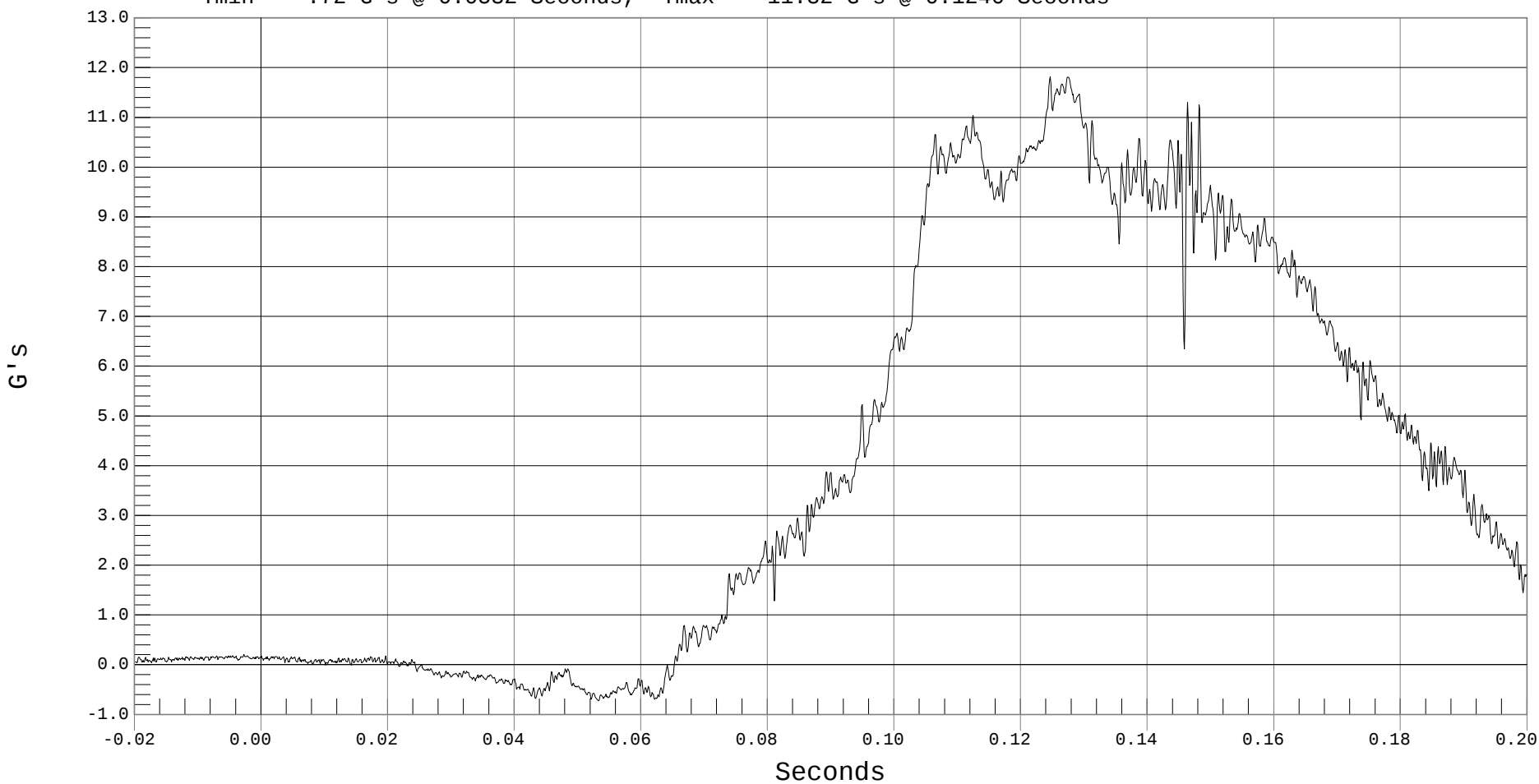
RIGHT REAR HEAD Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD HEAD Y, B01071AT.A84

Ymin = -.72 G's @ 0.0532 Seconds, Ymax = 11.82 G's @ 0.1246 Seconds





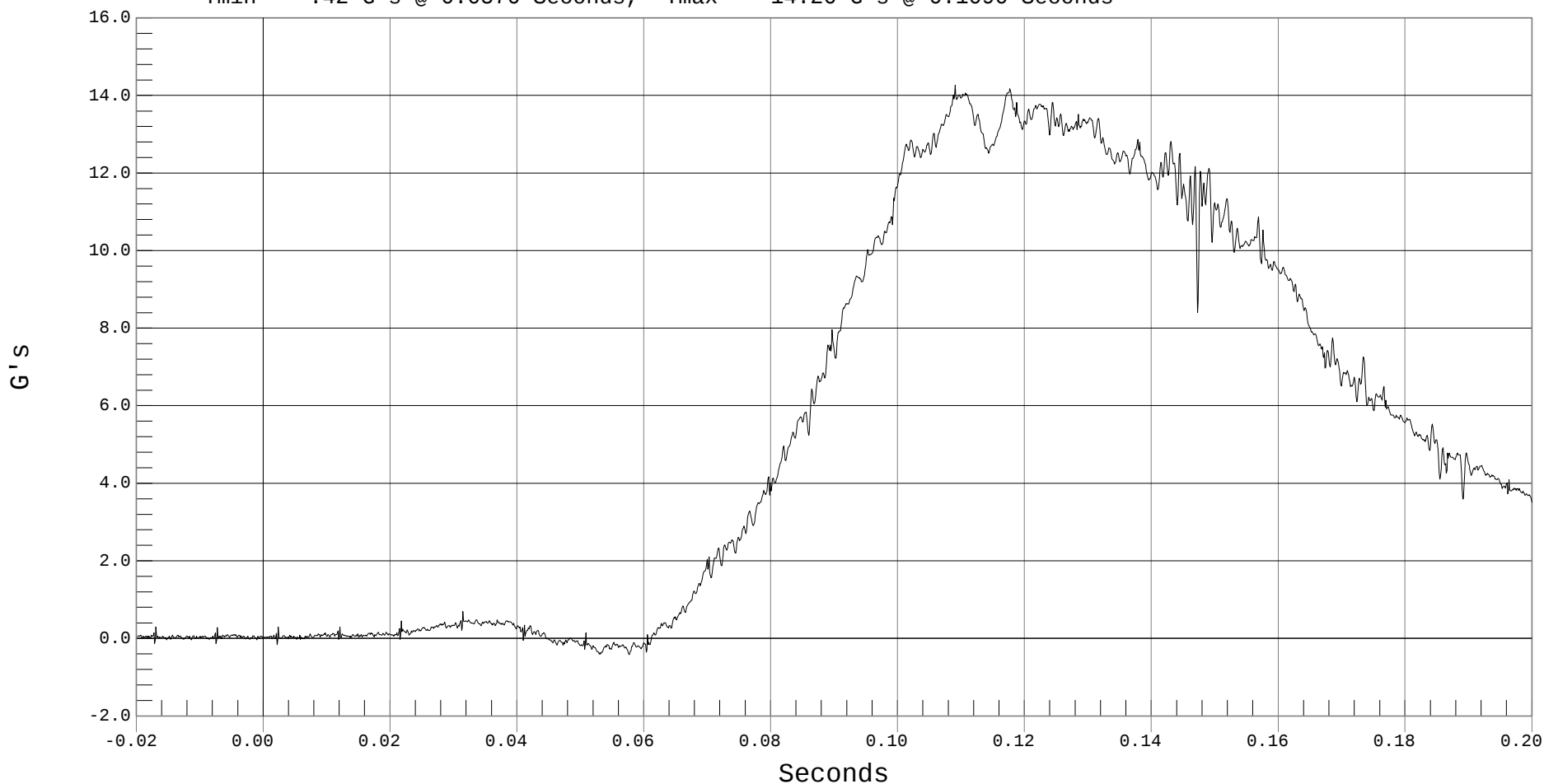
RIGHT REAR HEAD Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD HEAD Z, B01071AT.A85

Ymin = -.42 G's @ 0.0576 Seconds, Ymax = 14.26 G's @ 0.1090 Seconds





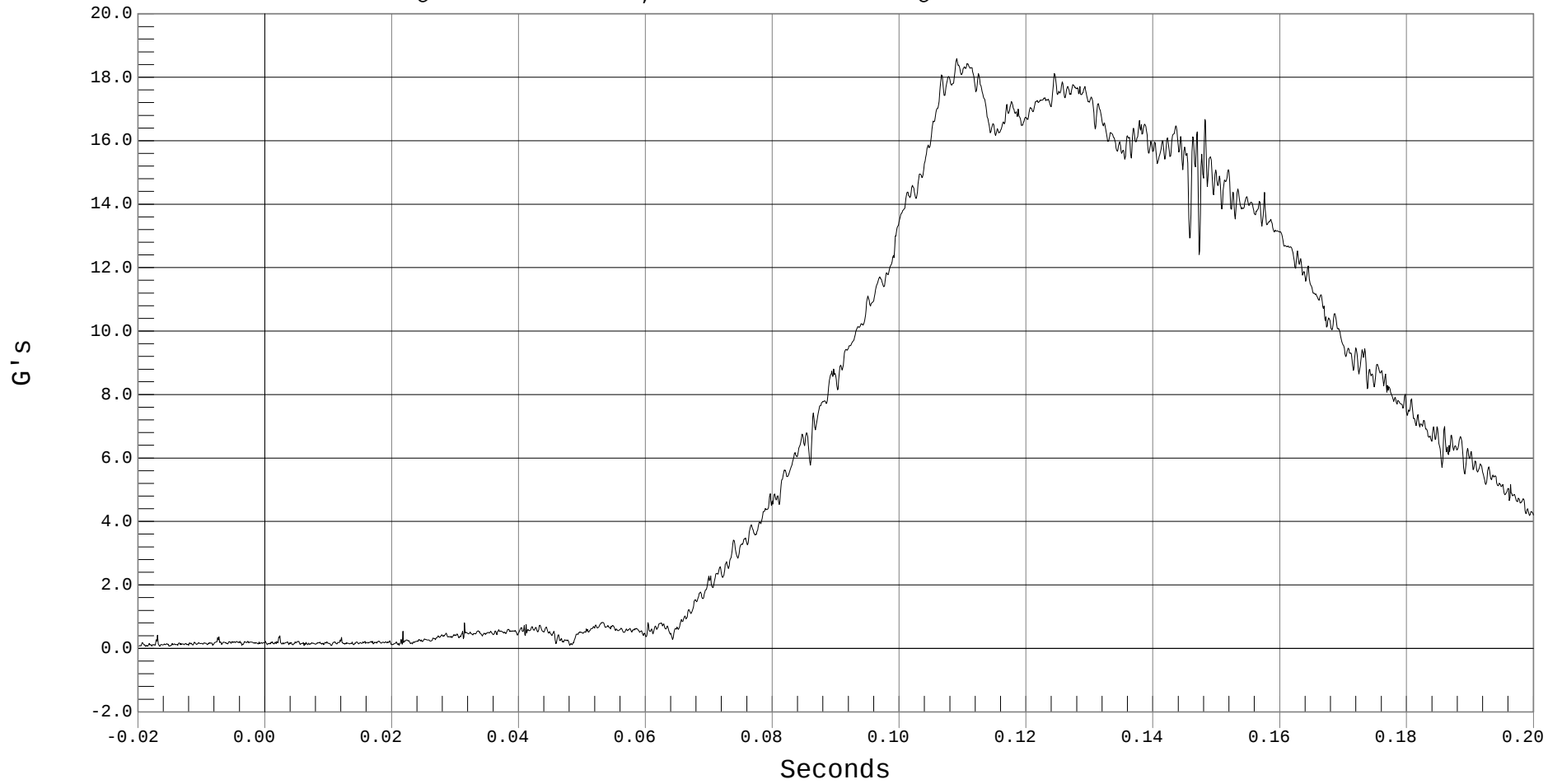
RIGHT REAR HEAD RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR HEAD RESULTANT, B01071AV.A83

Ymin = .07 G's @ -0.0189 Seconds, Ymax = 18.59 G's @ 0.1090 Seconds





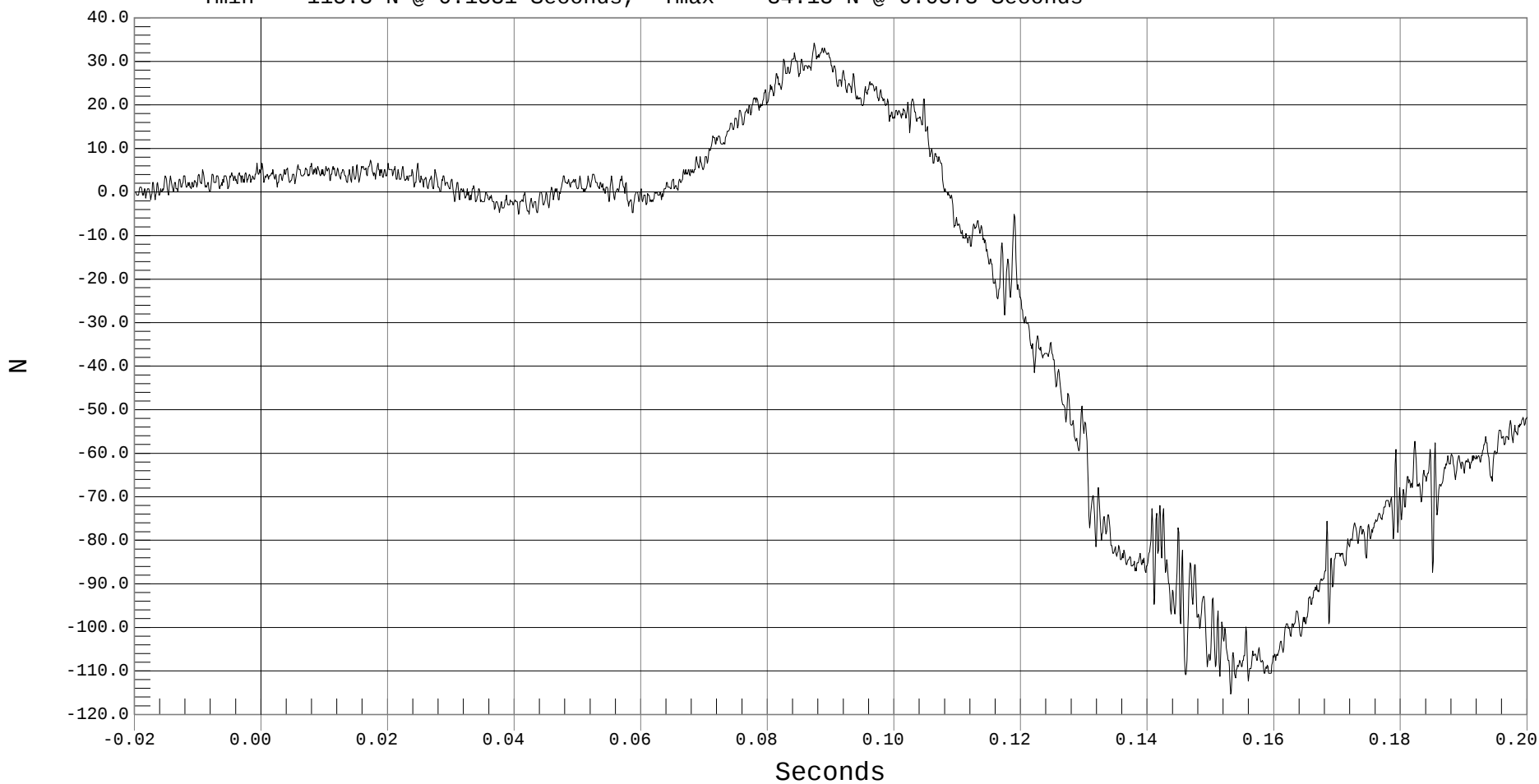
RIGHT REAR UPPER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD UPPER NECK FORCE X, B01071FT.F86

Ymin = -115.3 N @ 0.1531 Seconds, Ymax = 34.18 N @ 0.0873 Seconds





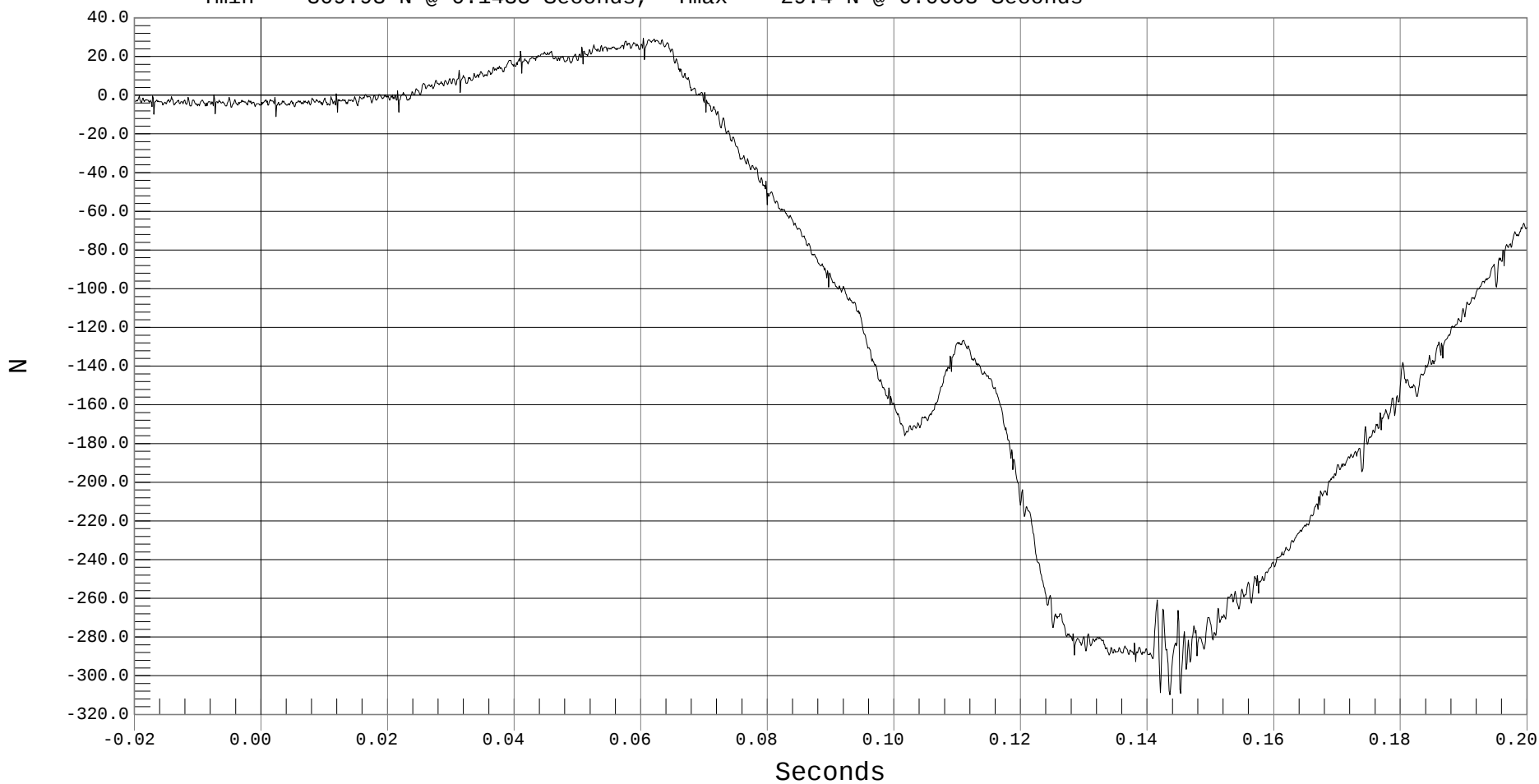
RIGHT REAR UPPER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD UPPER NECK FORCE Y, B01071FT.F87

Ymin = -309.93 N @ 0.1435 Seconds, Ymax = 29.4 N @ 0.0603 Seconds





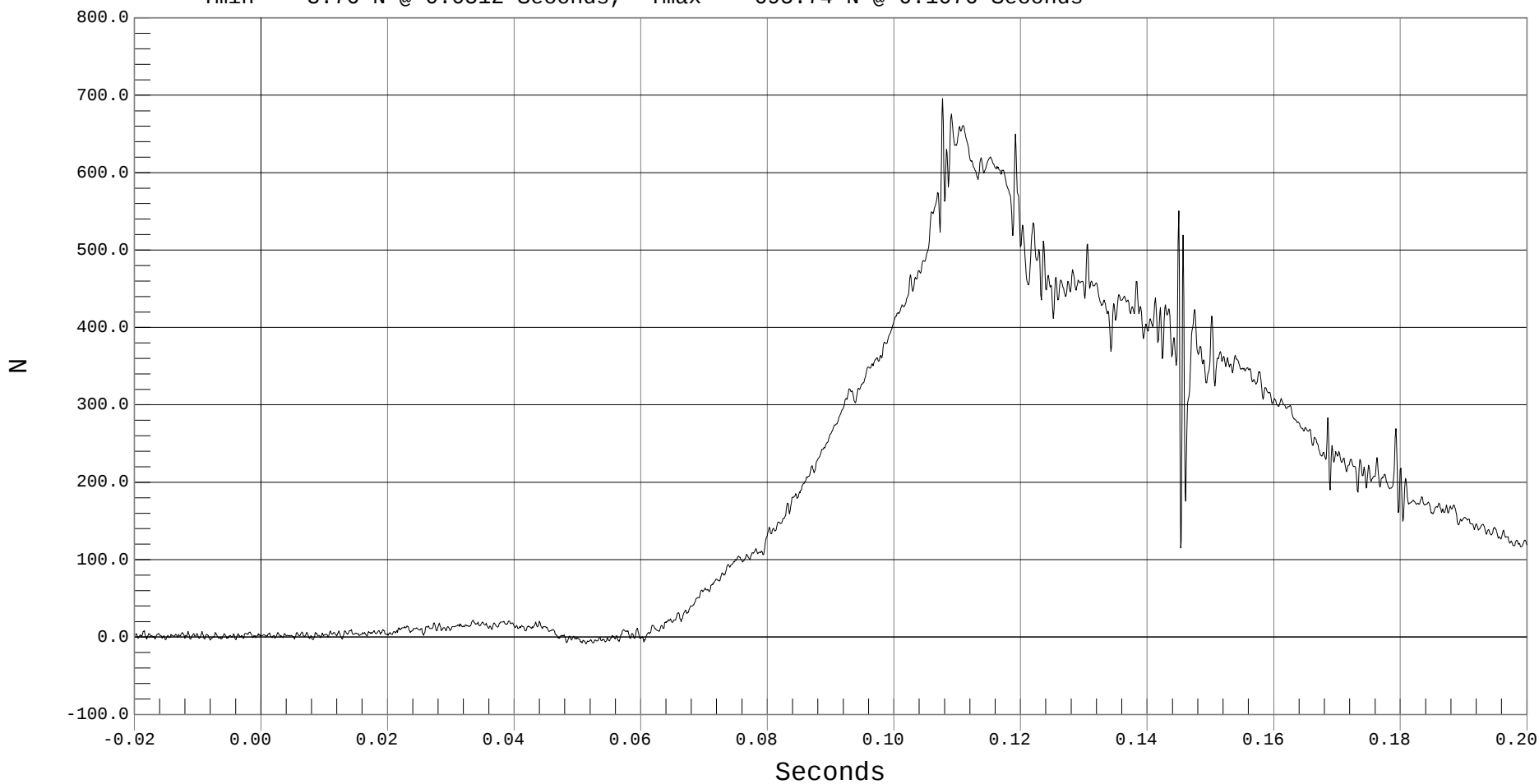
RIGHT REAR UPPER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

1 RIGHT REAR CHILD UPPER NECK FORCE Z, B01071FT.F88

Ymin = -8.76 N @ 0.0512 Seconds, Ymax = 695.74 N @ 0.1076 Seconds





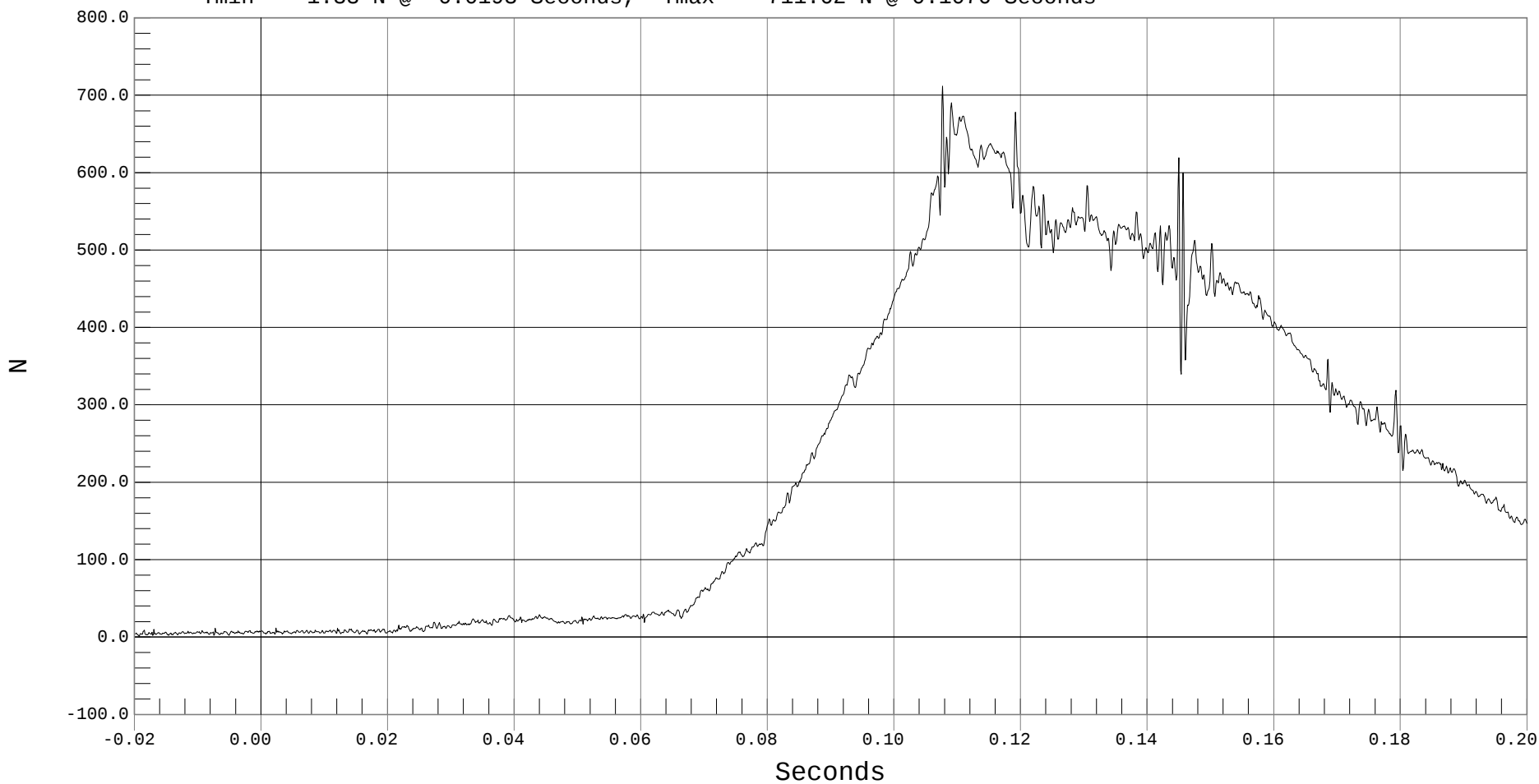
RIGHT REAR UPPER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR UPPER NECK FORCE RESULTANT, B01071FV.F86

Ymin = 1.33 N @ -0.0193 Seconds, Ymax = 711.62 N @ 0.1076 Seconds





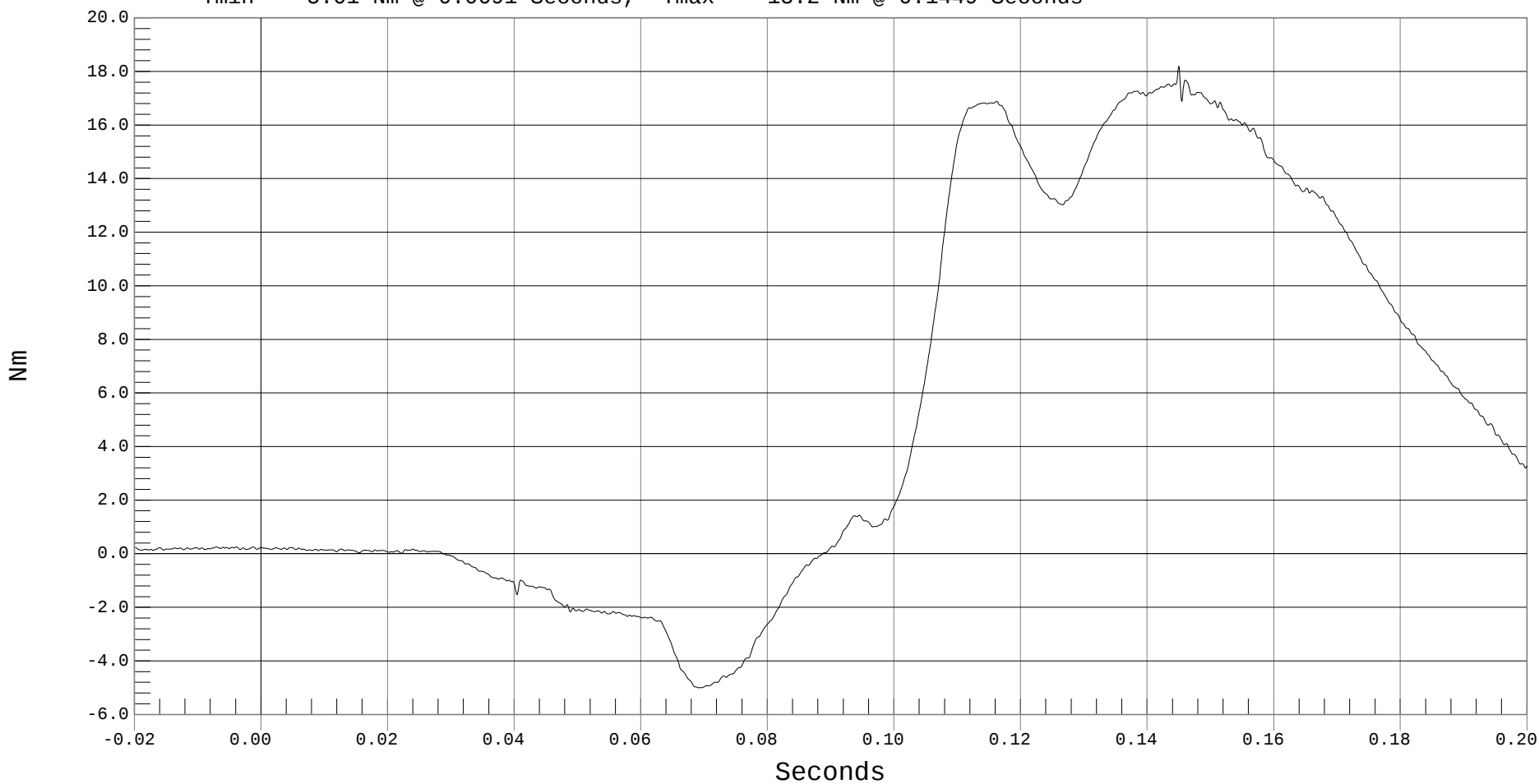
RIGHT REAR UPPER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD UPPER NECK MOMENT, B01071MF.M89

Ymin = -5.01 Nm @ 0.0691 Seconds, Ymax = 18.2 Nm @ 0.1449 Seconds





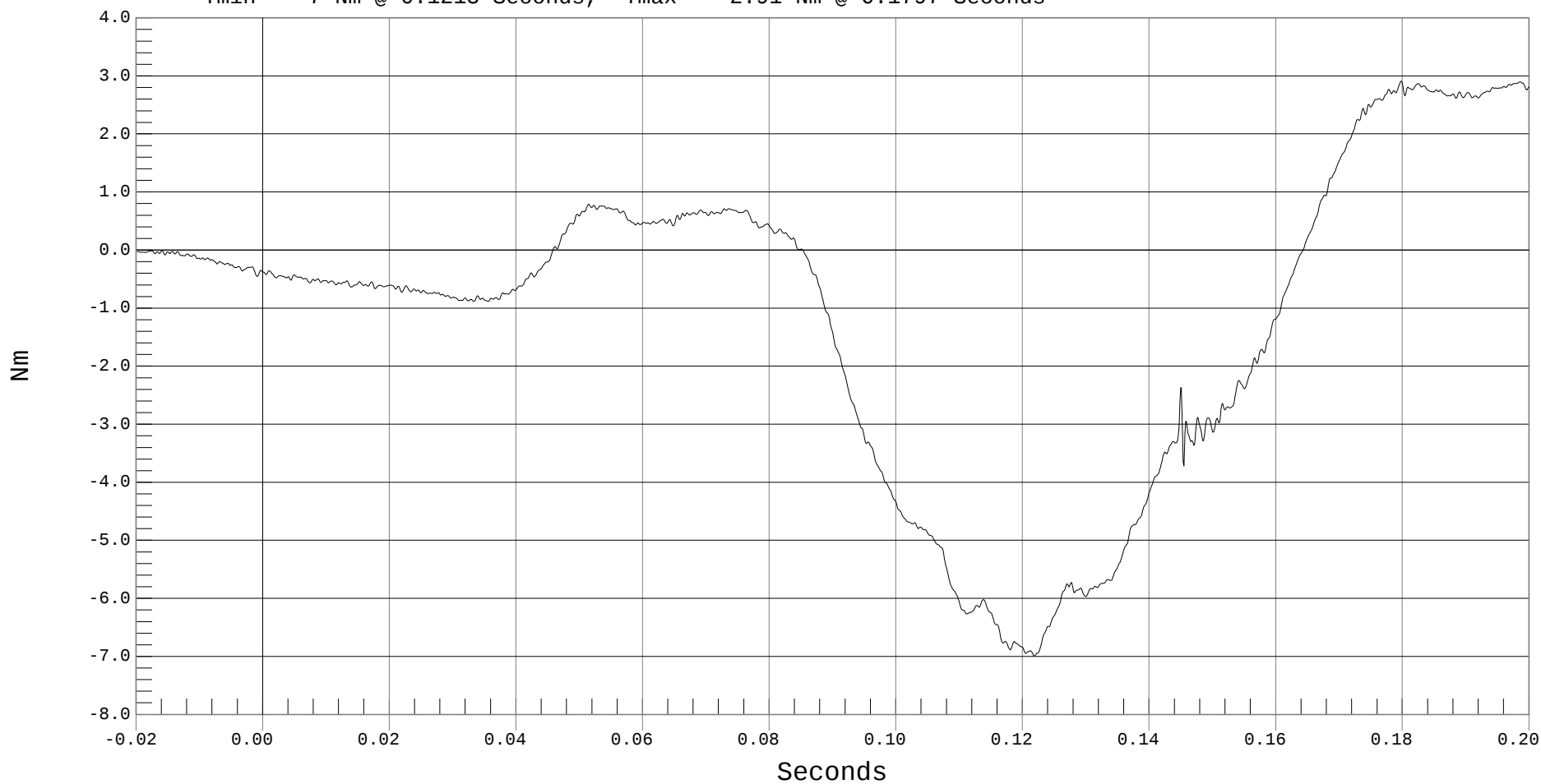
RIGHT REAR UPPER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD UPPER NECK MOMENT, B01071MF.M90

Ymin = -7 Nm @ 0.1218 Seconds, Ymax = 2.91 Nm @ 0.1797 Seconds





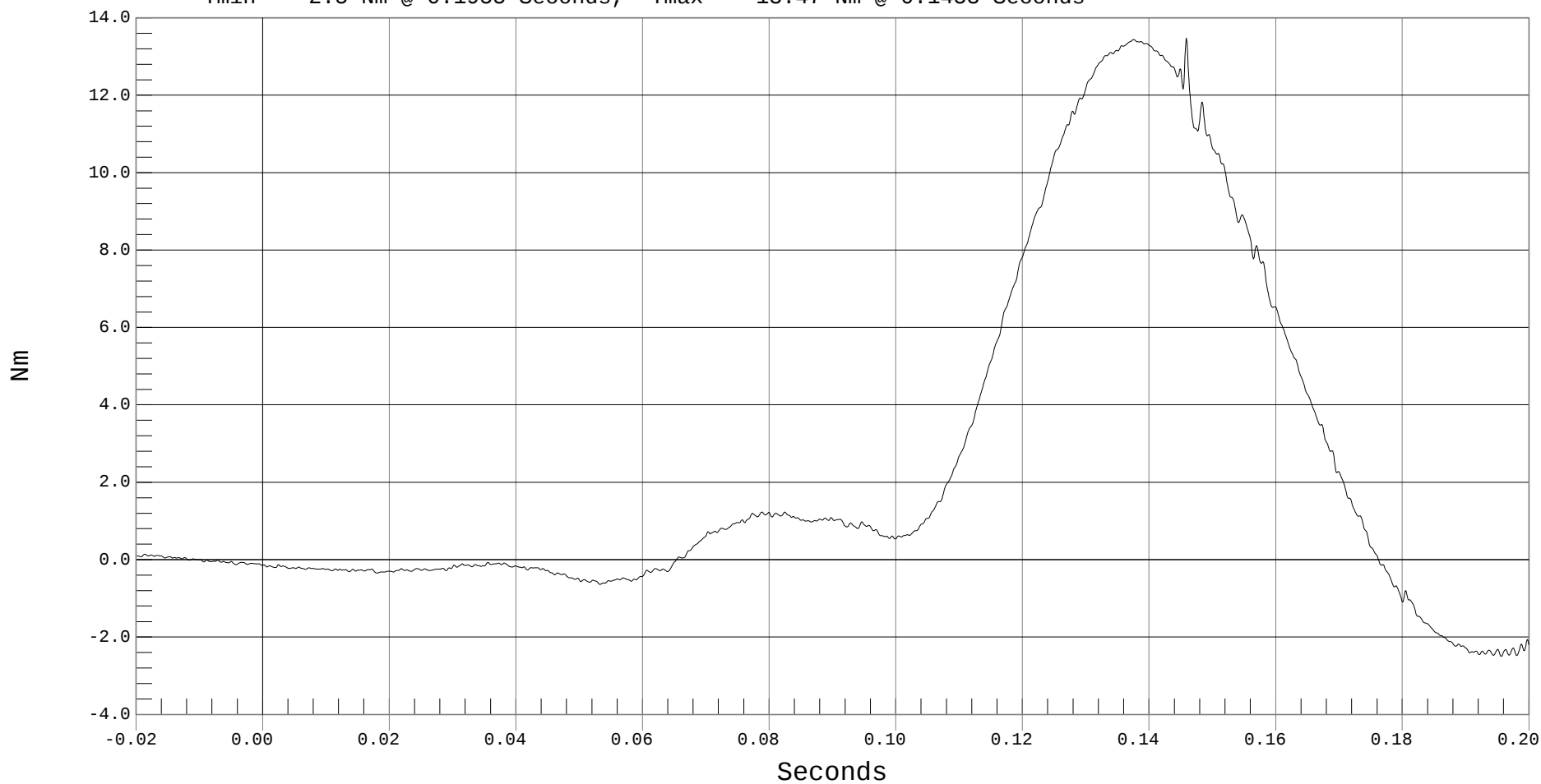
RIGHT REAR UPPER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD UPPER NECK MOMENT, B01071MF.M91

Ymin = -2.5 Nm @ 0.1955 Seconds, Ymax = 13.47 Nm @ 0.1458 Seconds





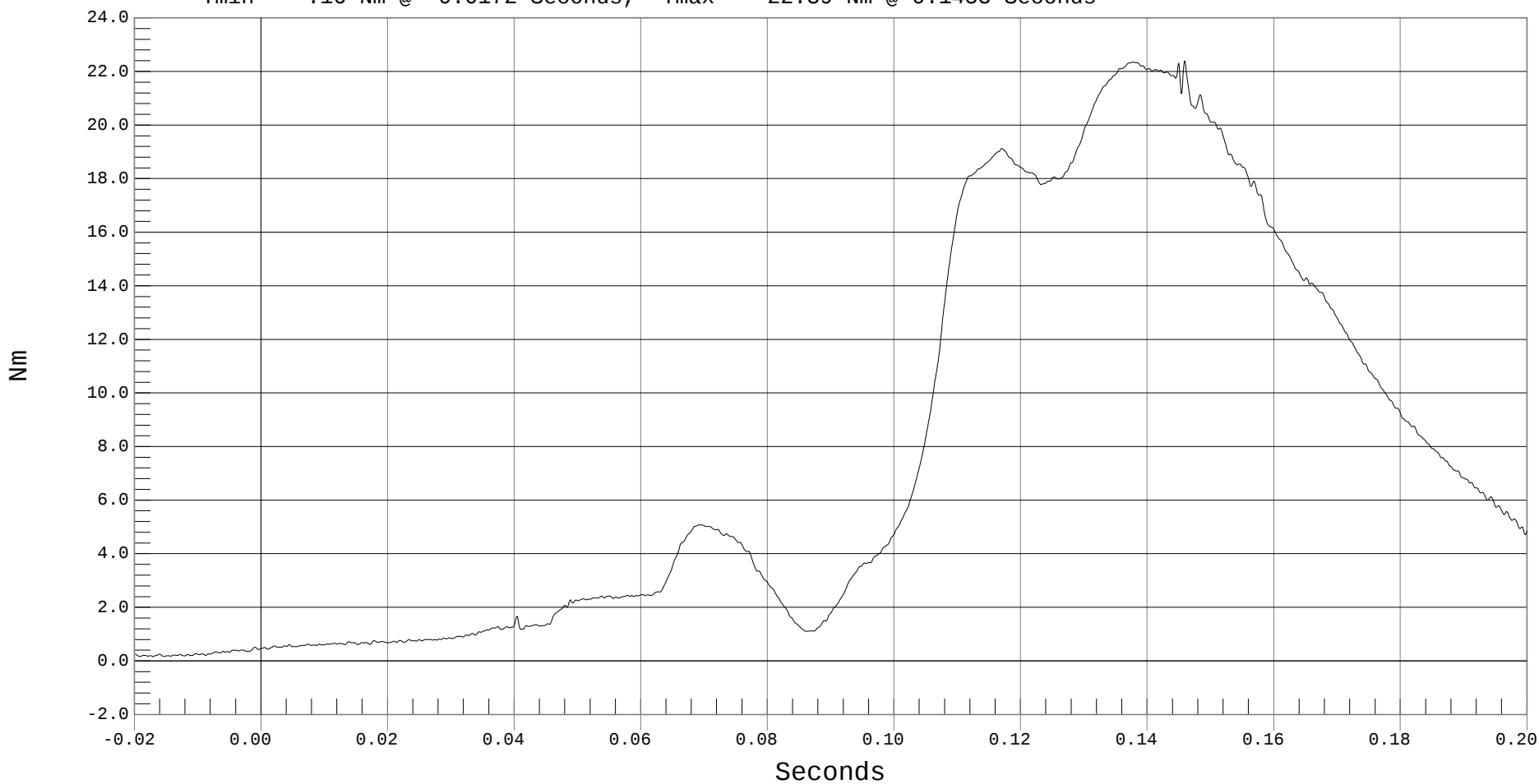
RIGHT REAR UPPER NECK MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR UPPER NECK MOMENT RESULTANT, B01071MV.M89

Ymin = .16 Nm @ -0.0172 Seconds, Ymax = 22.39 Nm @ 0.1458 Seconds





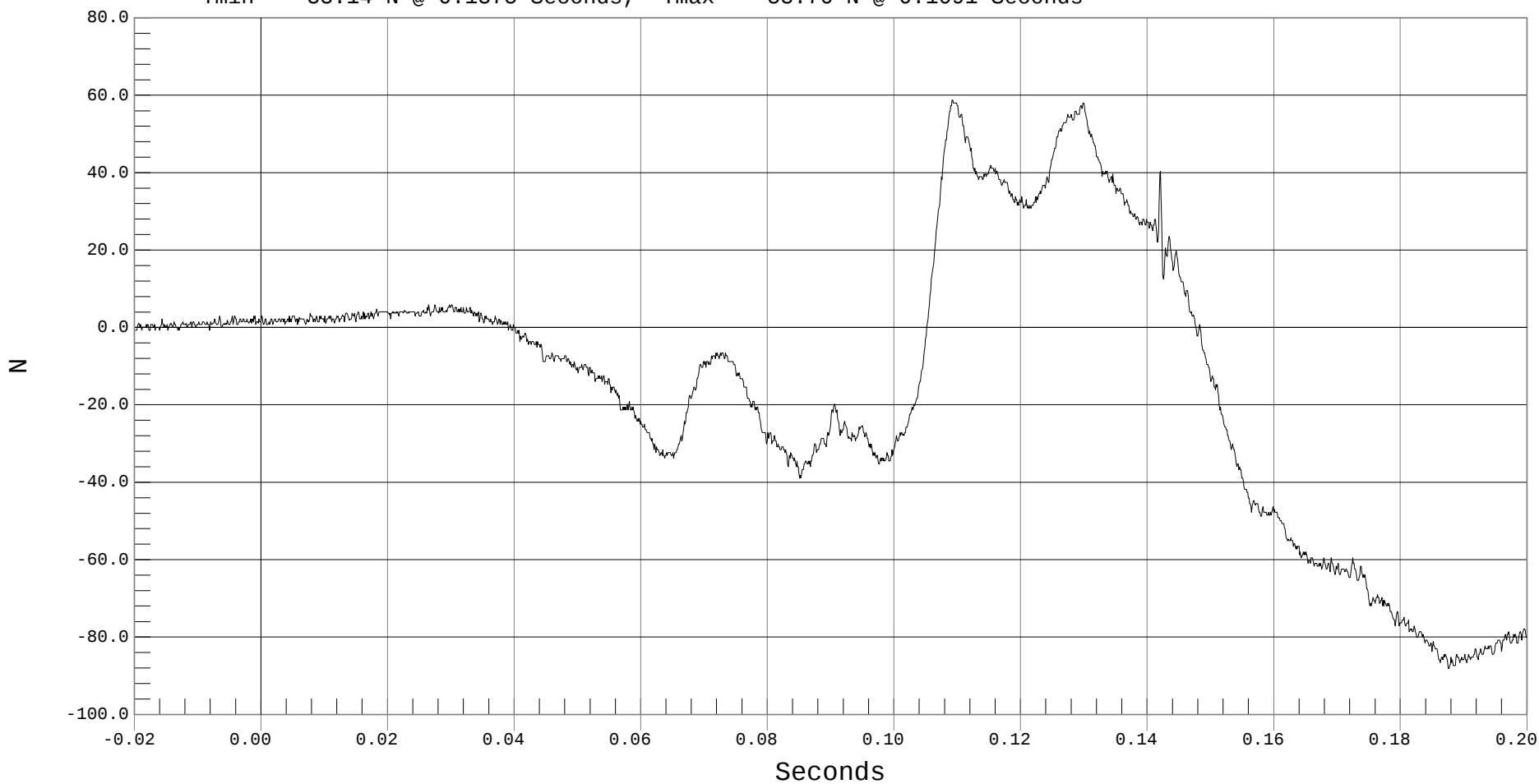
RIGHT REAR LOWER NECK FORCE X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD LOWER NECK FORCE X, B01071FT.F92

Ymin = -88.14 N @ 0.1875 Seconds, Ymax = 58.76 N @ 0.1091 Seconds





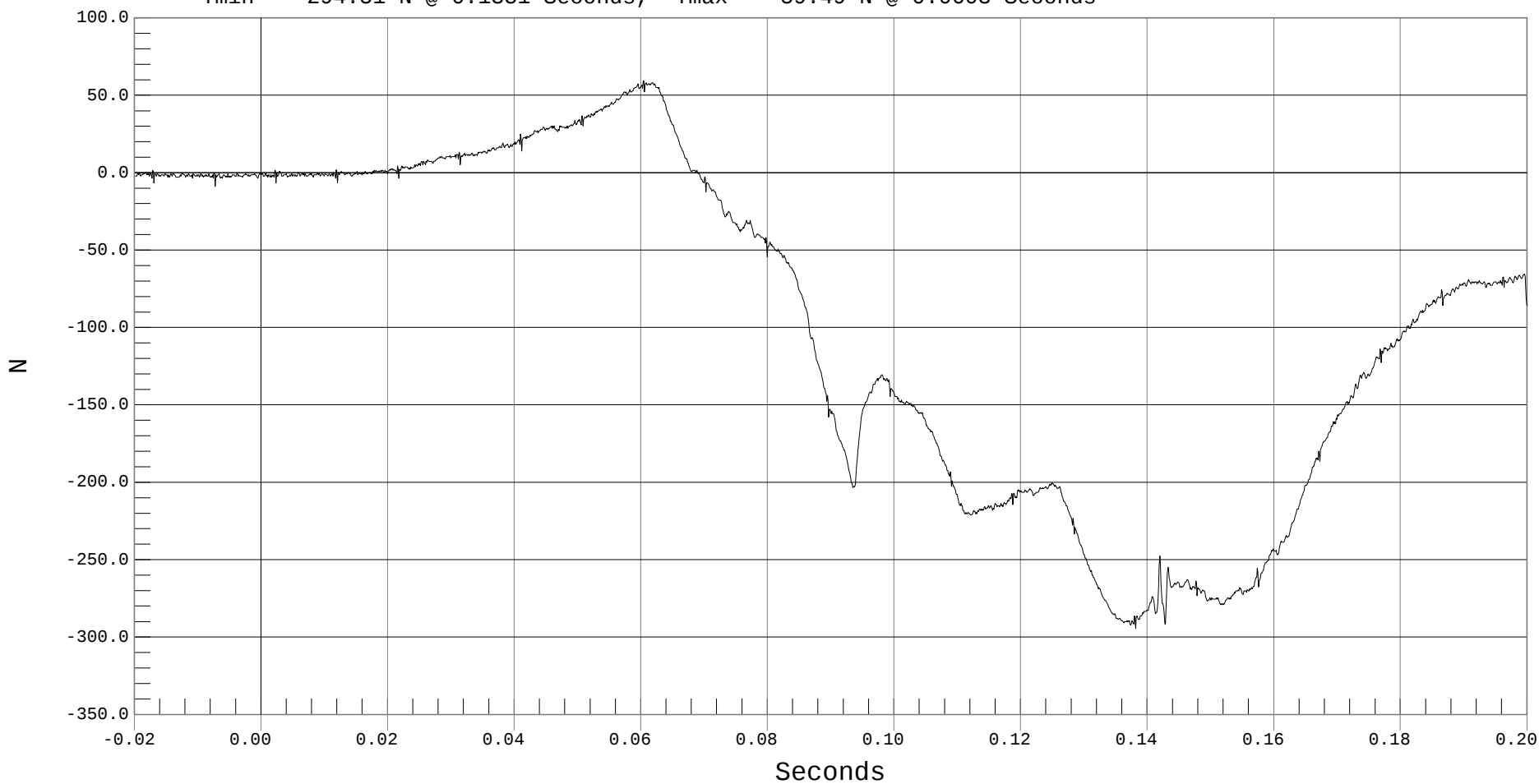
RIGHT REAR LOWER NECK FORCE Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD LOWER NECK FORCE Y, B01071FT.F93

Ymin = -294.51 N @ 0.1381 Seconds, Ymax = 59.49 N @ 0.0603 Seconds





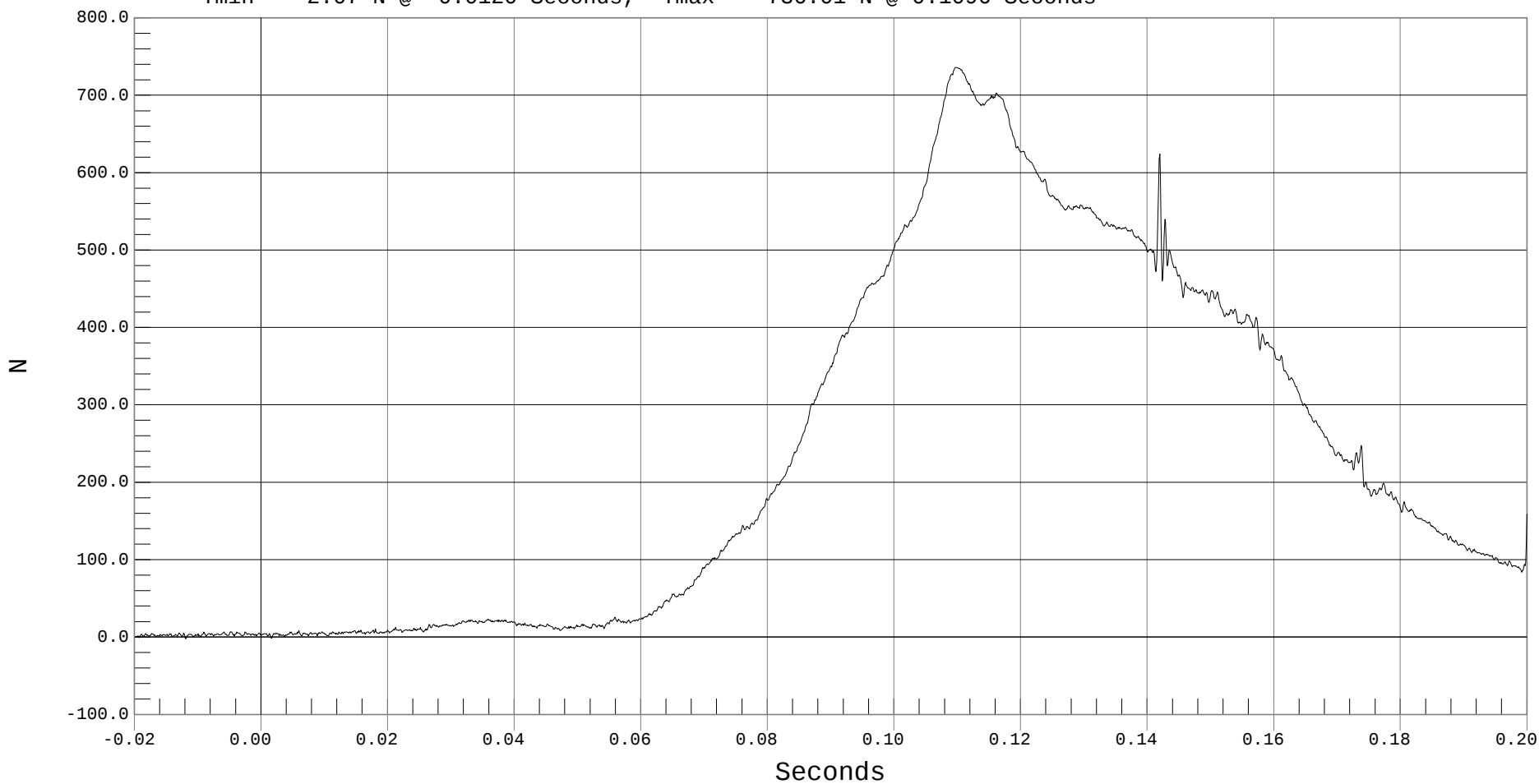
RIGHT REAR LOWER NECK FORCE Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD LOWER NECK FORCE Z, B01071FT.F94

Ymin = -2.07 N @ -0.0120 Seconds, Ymax = 736.01 N @ 0.1096 Seconds





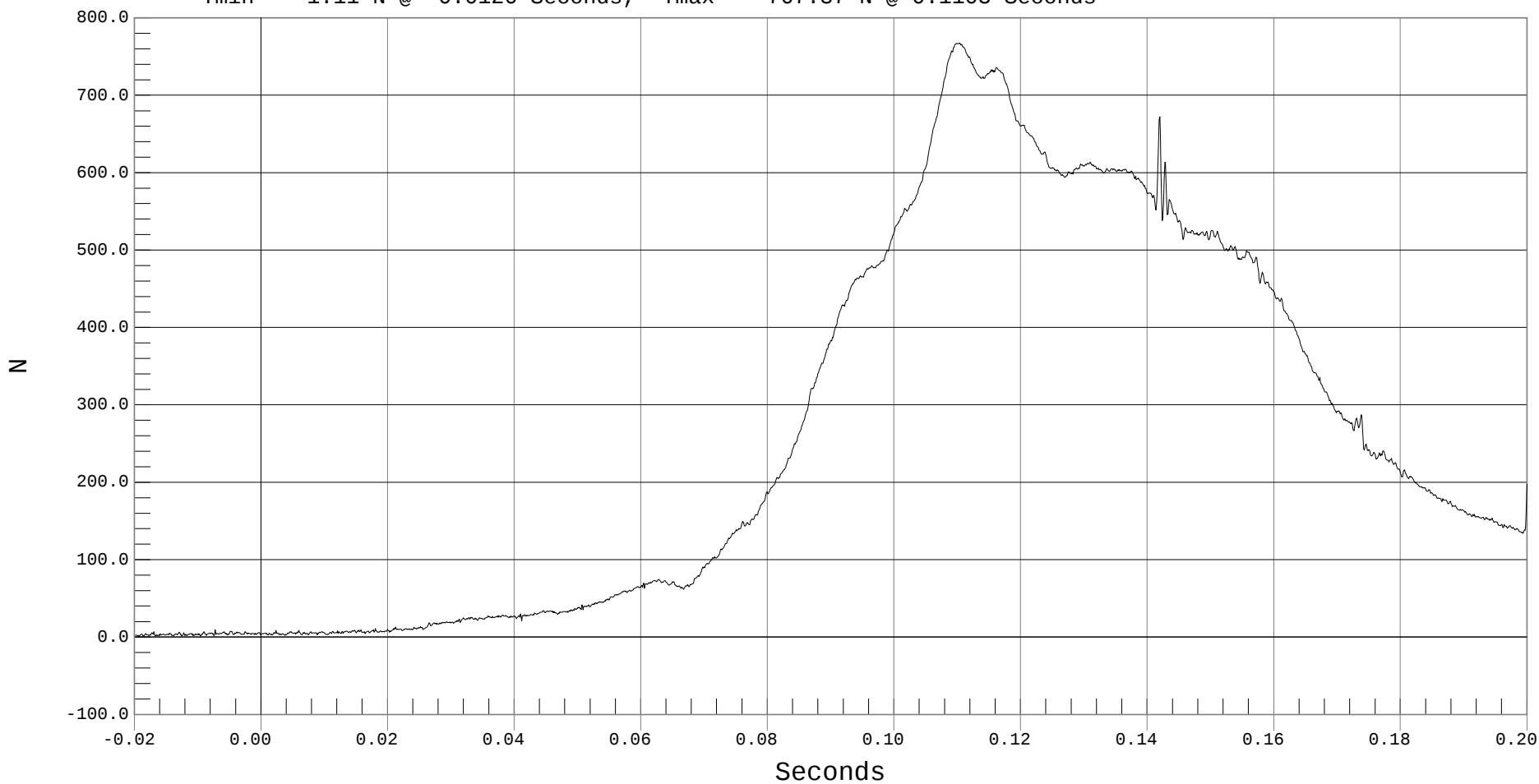
RIGHT REAR LOWER NECK FORCE RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR LOWER NECK FORCE RESULTANT, B01071FV.F92

Ymin = 1.11 N @ -0.0126 Seconds, Ymax = 767.37 N @ 0.1103 Seconds





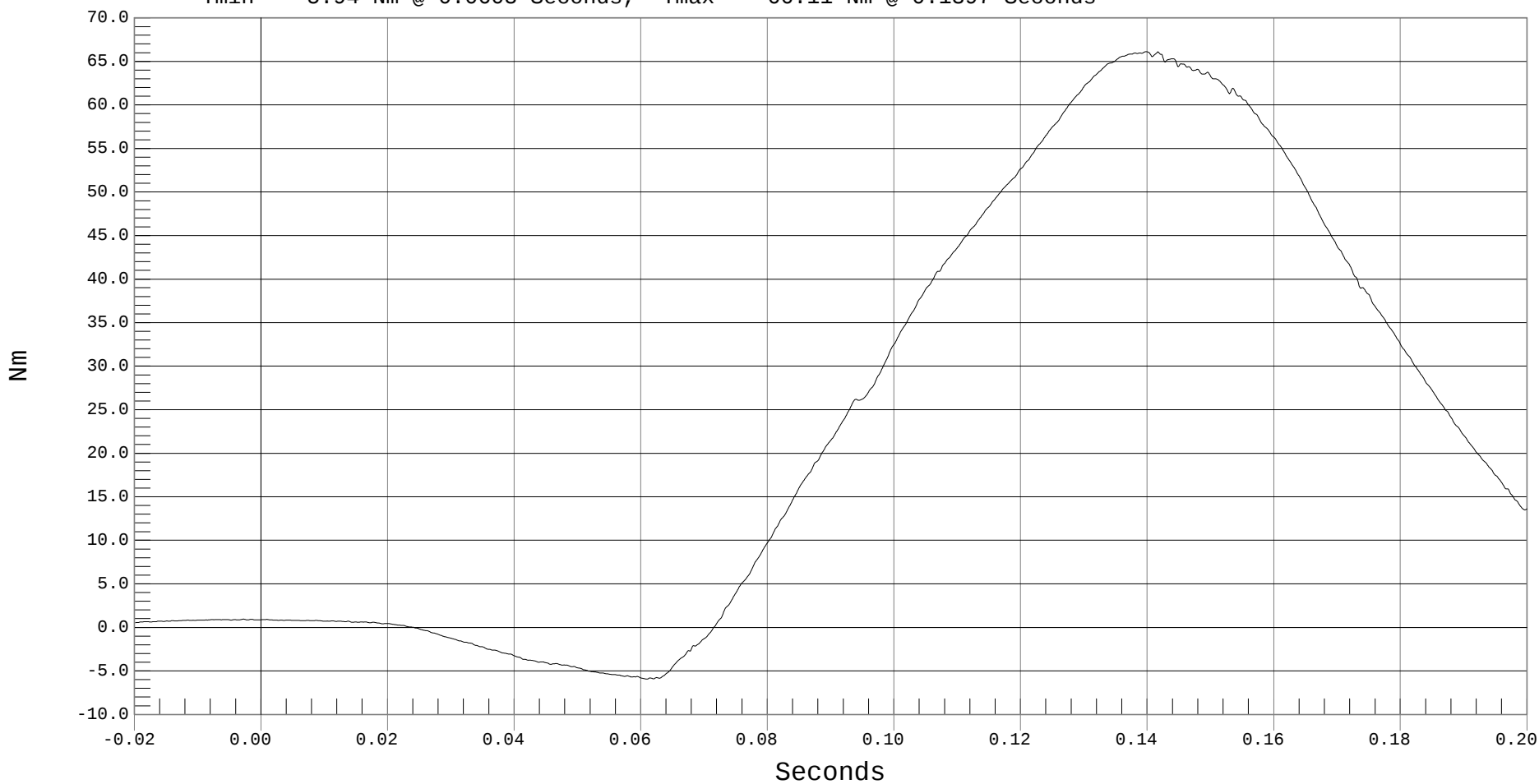
RIGHT REAR LOWER NECK MOMENT X

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD LOWER NECK MOMENT, B01071MF.M13

Ymin = -5.94 Nm @ 0.0608 Seconds, Ymax = 66.11 Nm @ 0.1397 Seconds





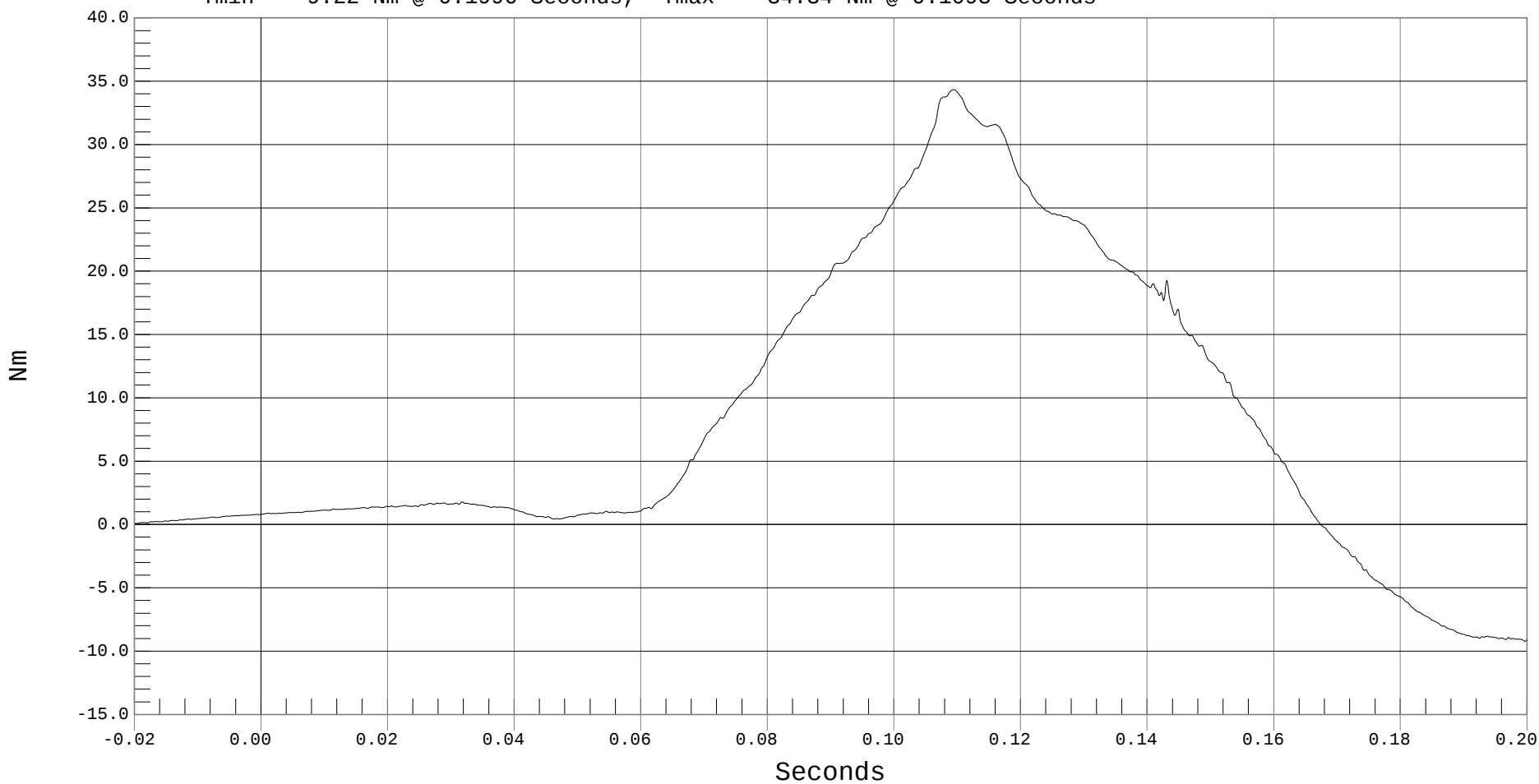
RIGHT REAR LOWER NECK MOMENT Y

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD LOWER NECK MOMENT, B01071MF.M14

Ymin = -9.22 Nm @ 0.1996 Seconds, Ymax = 34.34 Nm @ 0.1093 Seconds





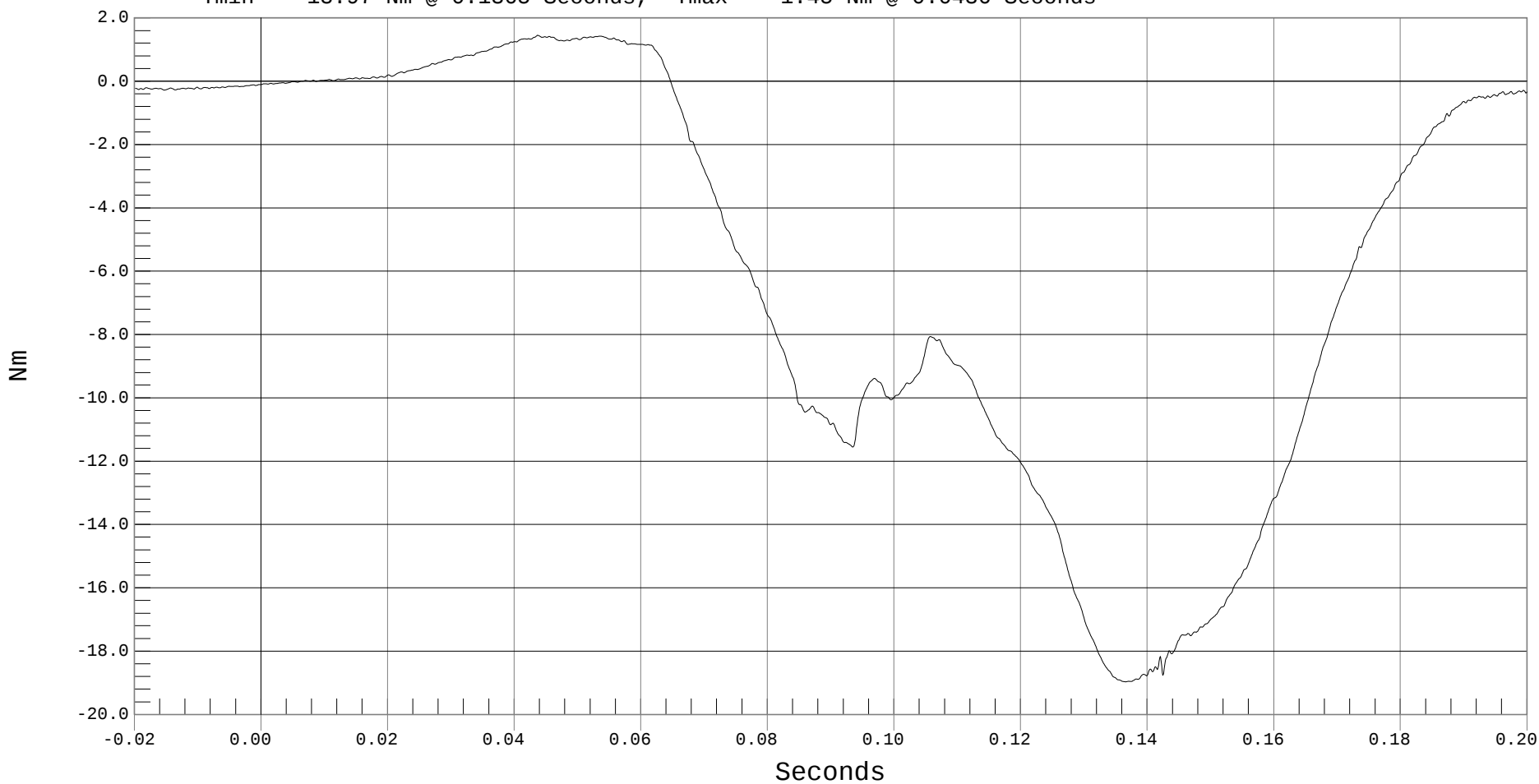
RIGHT REAR LOWER NECK MOMENT Z

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RIGHT REAR CHILD LOWER NECK MOMENT, B01071MF.M01

Ymin = -18.97 Nm @ 0.1365 Seconds, Ymax = 1.45 Nm @ 0.0436 Seconds





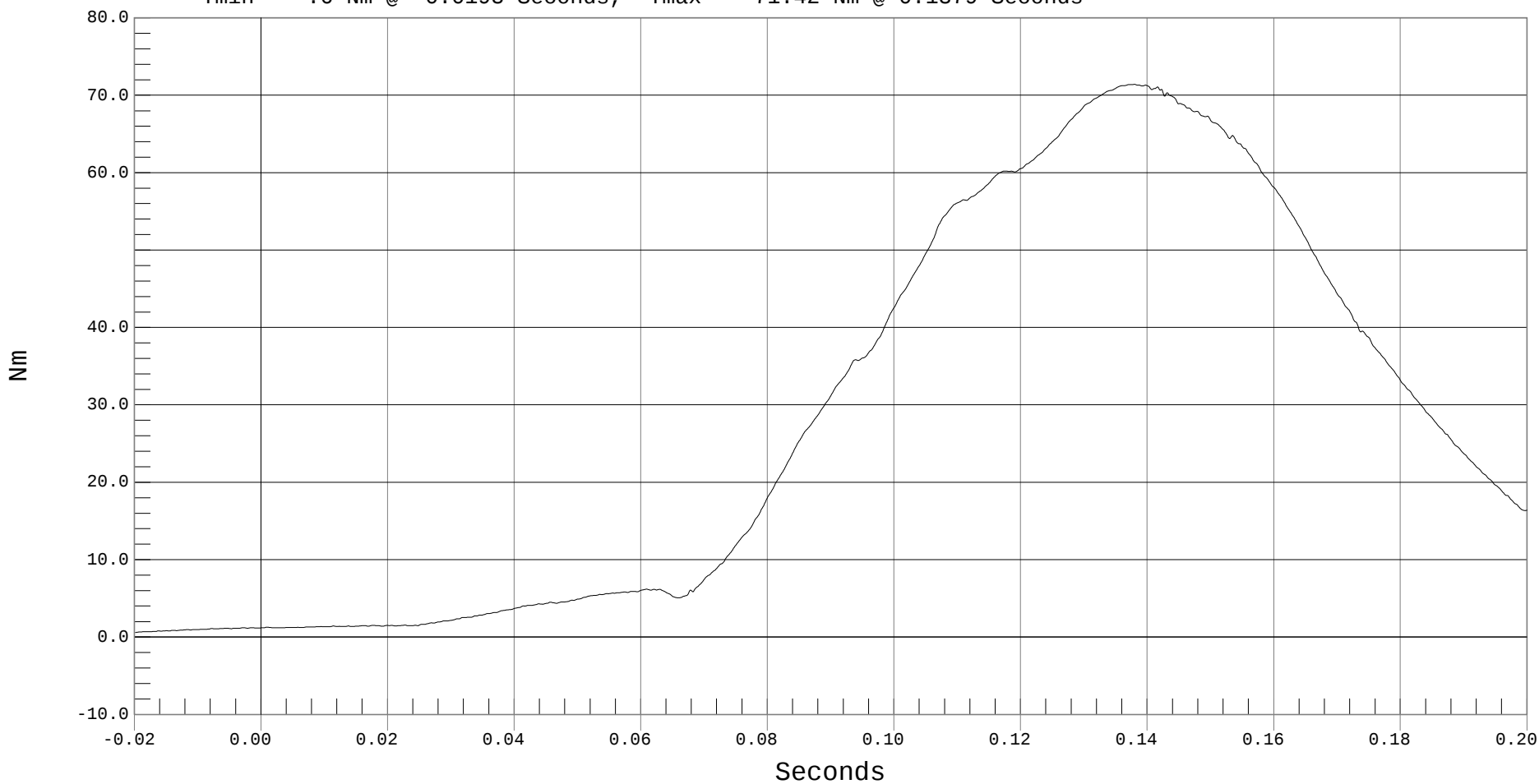
RIGHT REAR LOWER NECK MOMENT RESULTANT

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 600

— 1 RRP LOWER NECK MOMENT RESULTANT, B01071MV.M01

Ymin = .6 Nm @ -0.0198 Seconds, Ymax = 71.42 Nm @ 0.1379 Seconds





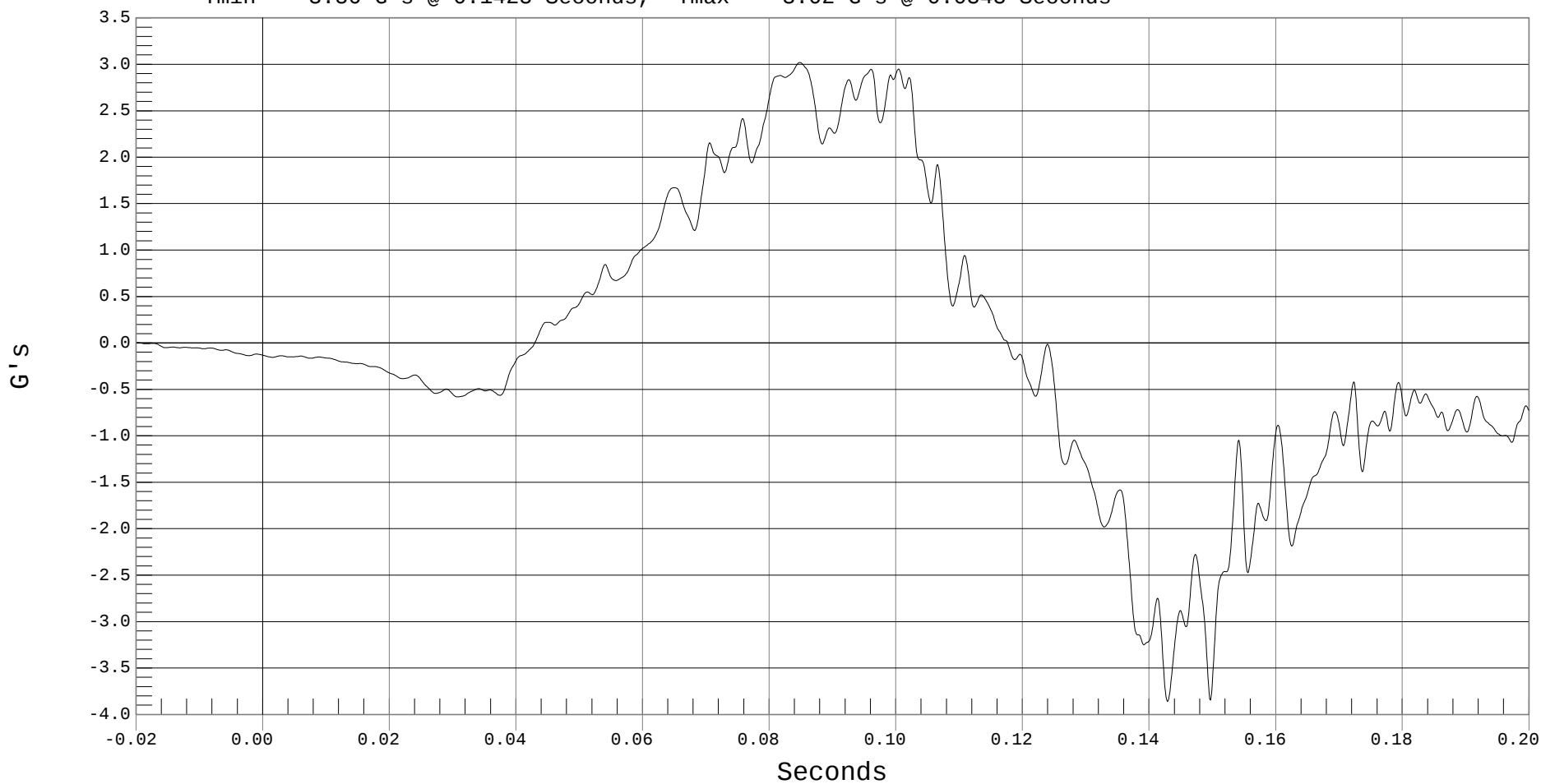
RIGHT REAR CHEST X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 RIGHT REAR CHILD CHEST X, B01071AF.A02

Ymin = -3.86 G's @ 0.1428 Seconds, Ymax = 3.02 G's @ 0.0848 Seconds





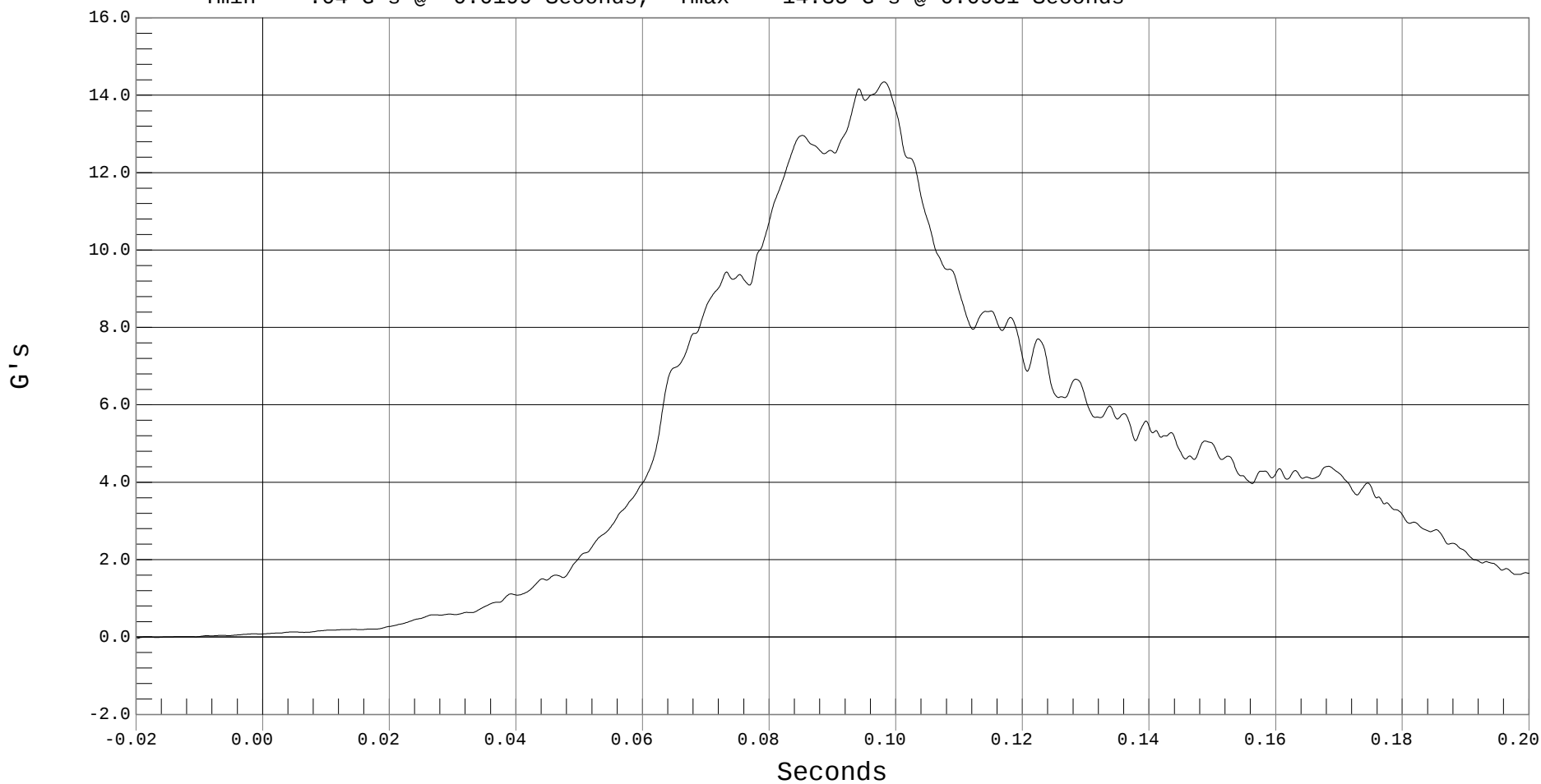
RIGHT REAR CHEST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 RIGHT REAR CHILD CHEST Y, B01071AF.A03

Ymin = -.04 G's @ -0.0199 Seconds, Ymax = 14.35 G's @ 0.0981 Seconds





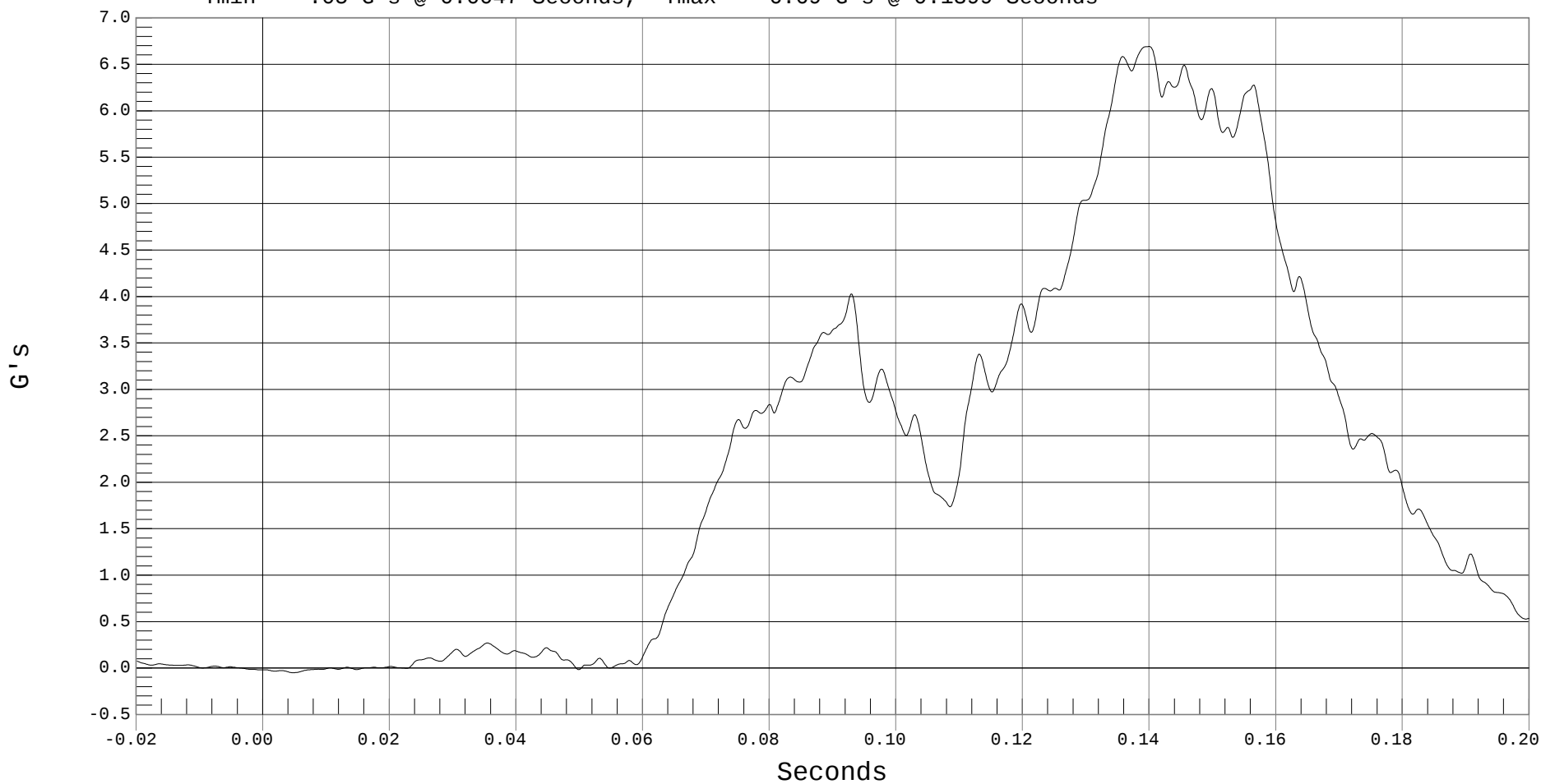
RIGHT REAR CHEST Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 RIGHT REAR CHILD CHEST Z, B01071AF.A04

Ymin = -.05 G's @ 0.0047 Seconds, Ymax = 6.69 G's @ 0.1399 Seconds





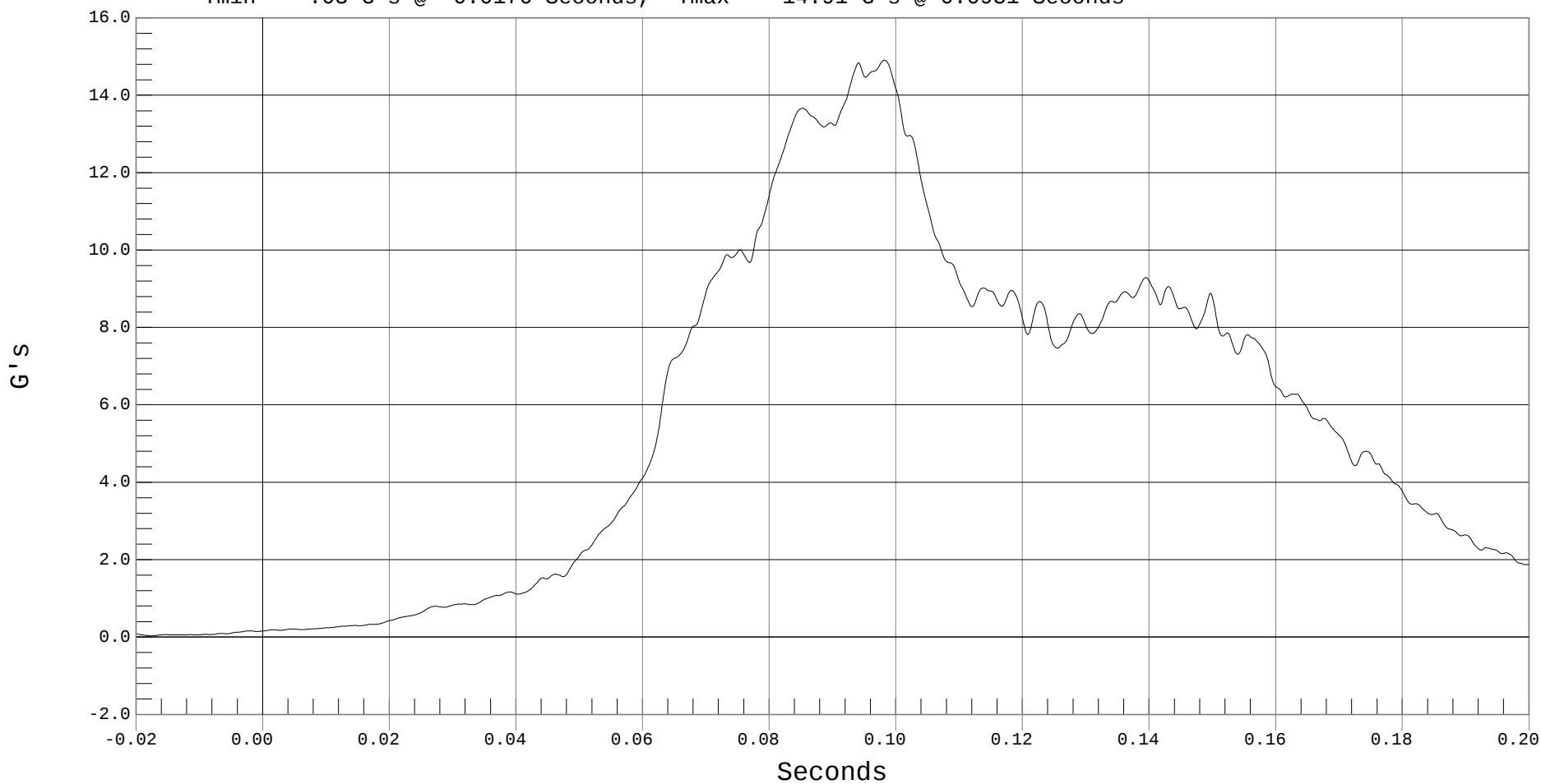
RIGHT REAR CHEST RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 180

— 1 RIGHT REAR CHEST RESULTANT, B01071AV.A02

Ymin = .03 G's @ -0.0176 Seconds, Ymax = 14.91 G's @ 0.0981 Seconds





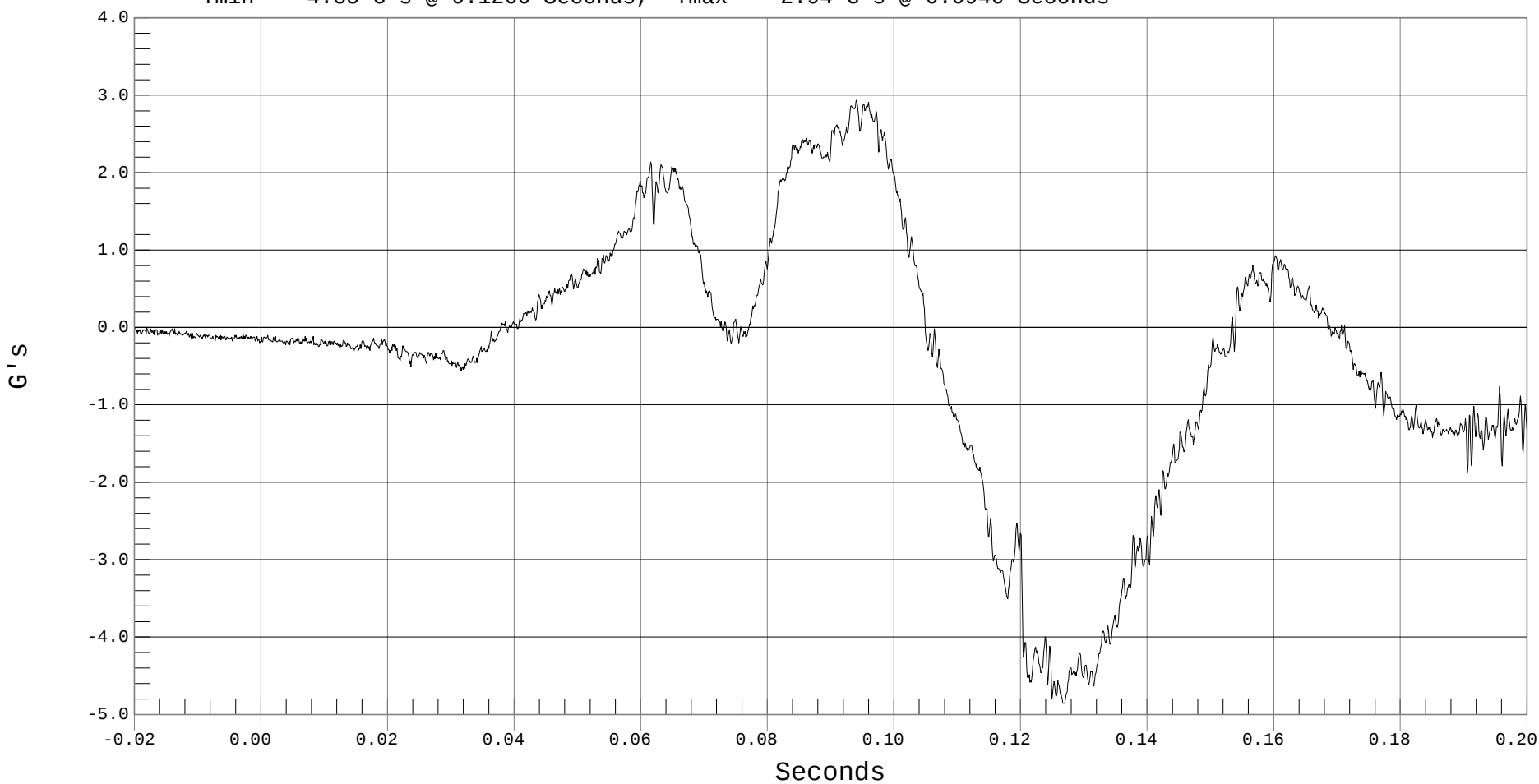
RIGHT REAR PELVIS X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD PELVIS X, B01071AT.A06

Ymin = -4.85 G's @ 0.1266 Seconds, Ymax = 2.94 G's @ 0.0940 Seconds





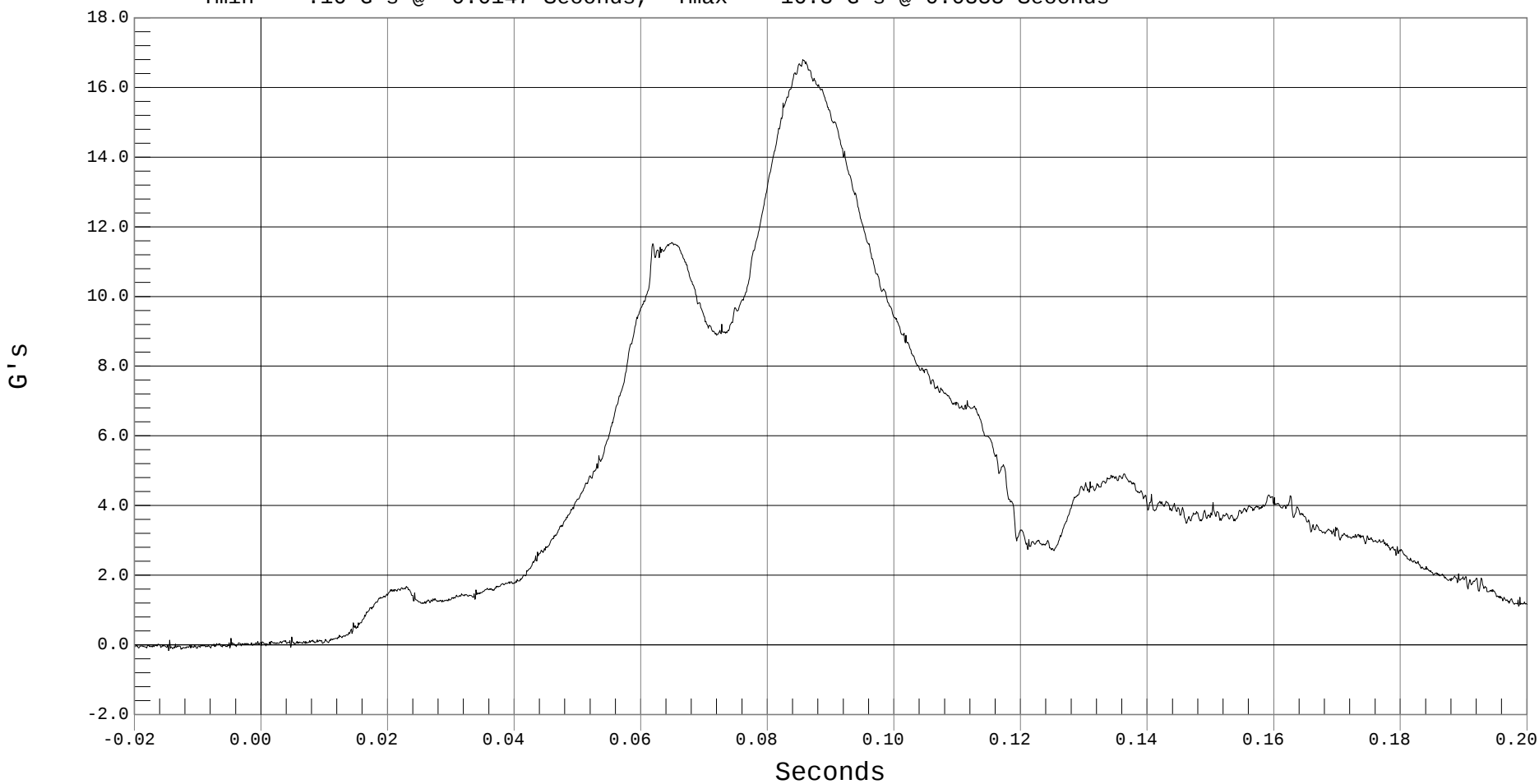
RIGHT REAR PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD PELVIS Y, B01071AT.A07

Ymin = -.16 G's @ -0.0147 Seconds, Ymax = 16.8 G's @ 0.0855 Seconds





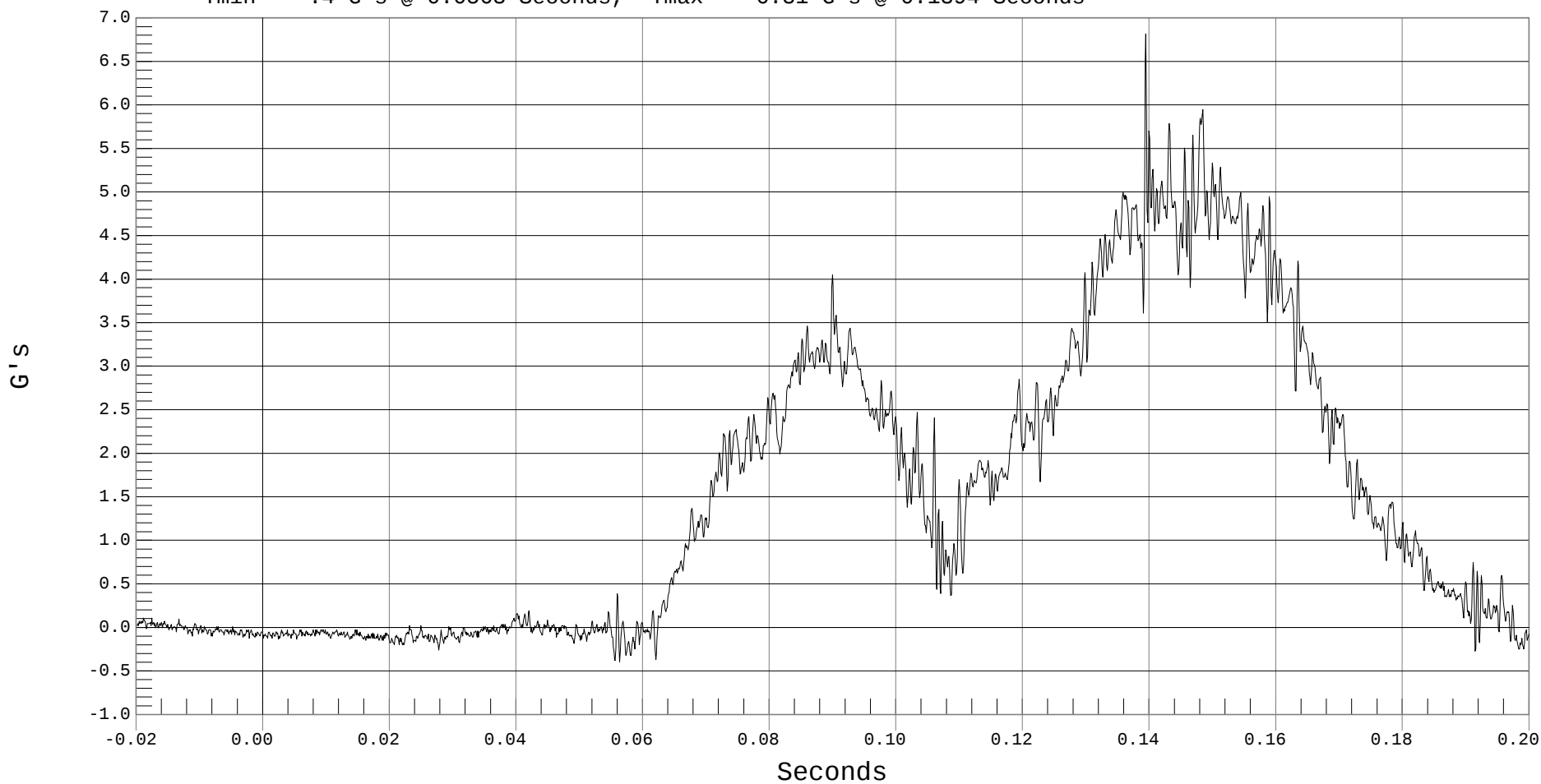
RIGHT REAR PELVIS Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 1000

— 1 RIGHT REAR CHILD PELVIS Z, B01071AT.A08

Ymin = -.4 G's @ 0.0563 Seconds, Ymax = 6.81 G's @ 0.1394 Seconds





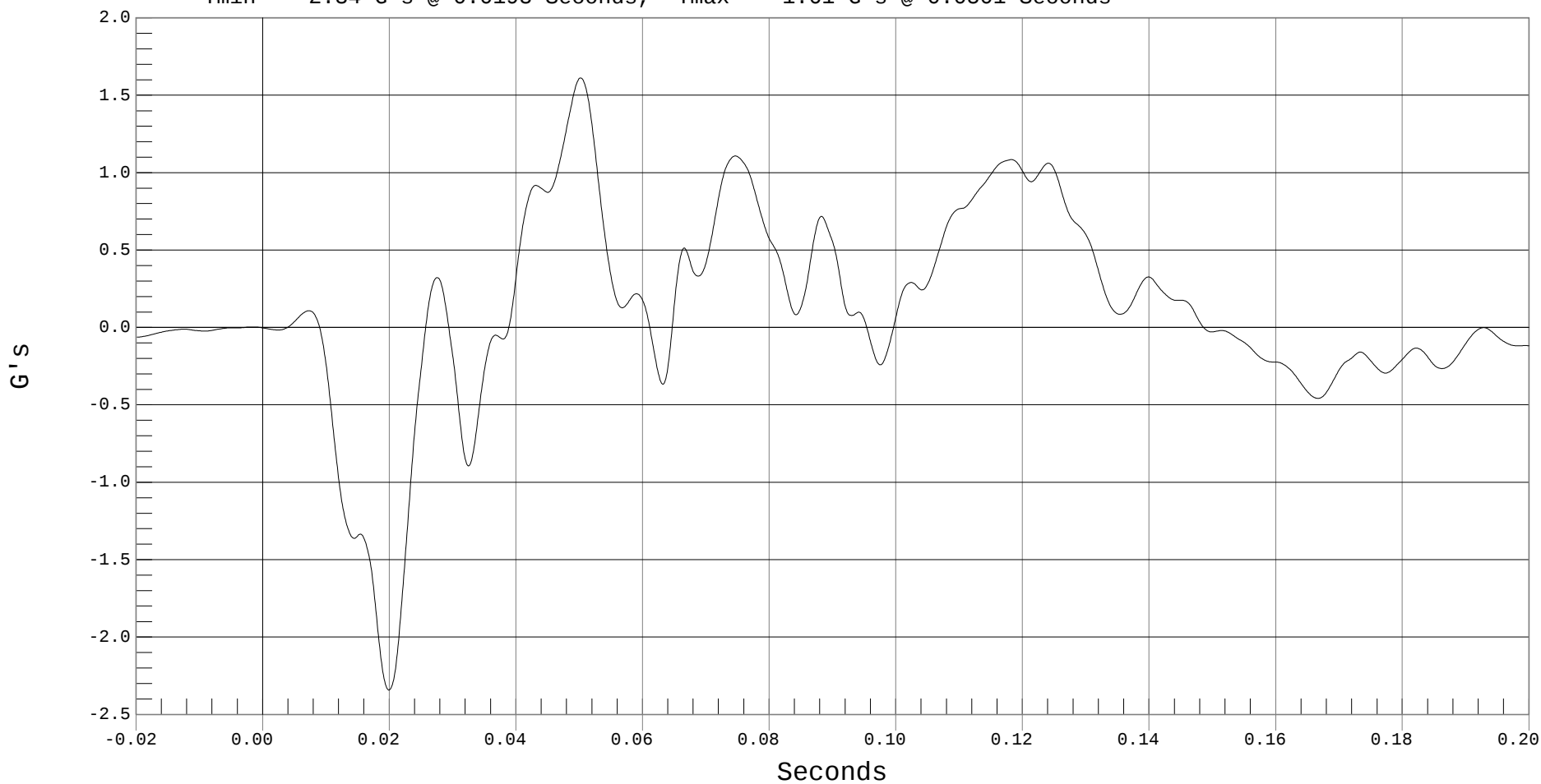
RIGHT SIDE SILL AT FRONT SEAT X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL X, B01071AF.A25

Ymin = -2.34 G's @ 0.0198 Seconds, Ymax = 1.61 G's @ 0.0501 Seconds





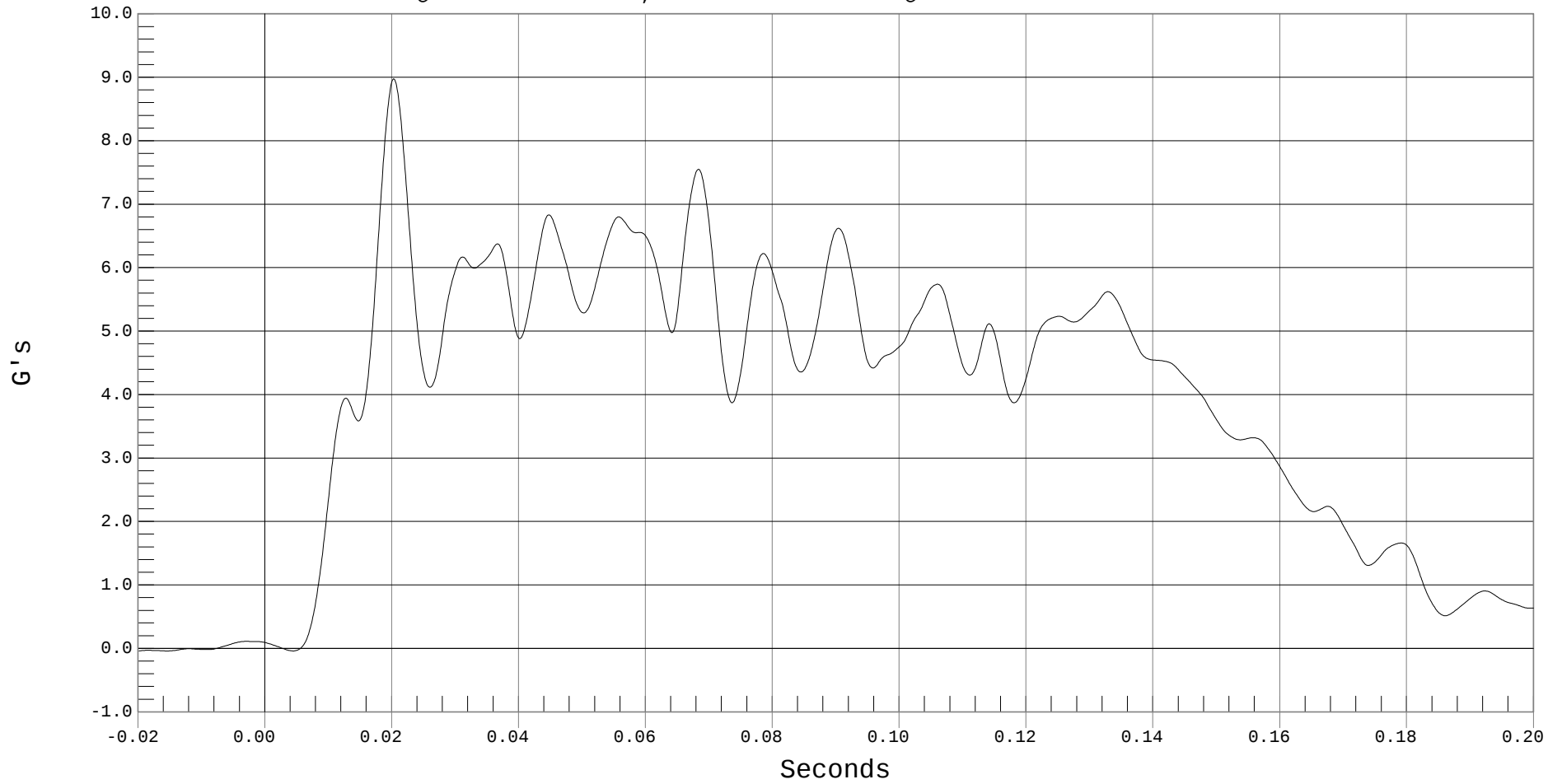
RIGHT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL Y, B01071AF.A26

Ymin = -.04 G's @ -0.0199 Seconds, Ymax = 8.98 G's @ 0.0202 Seconds





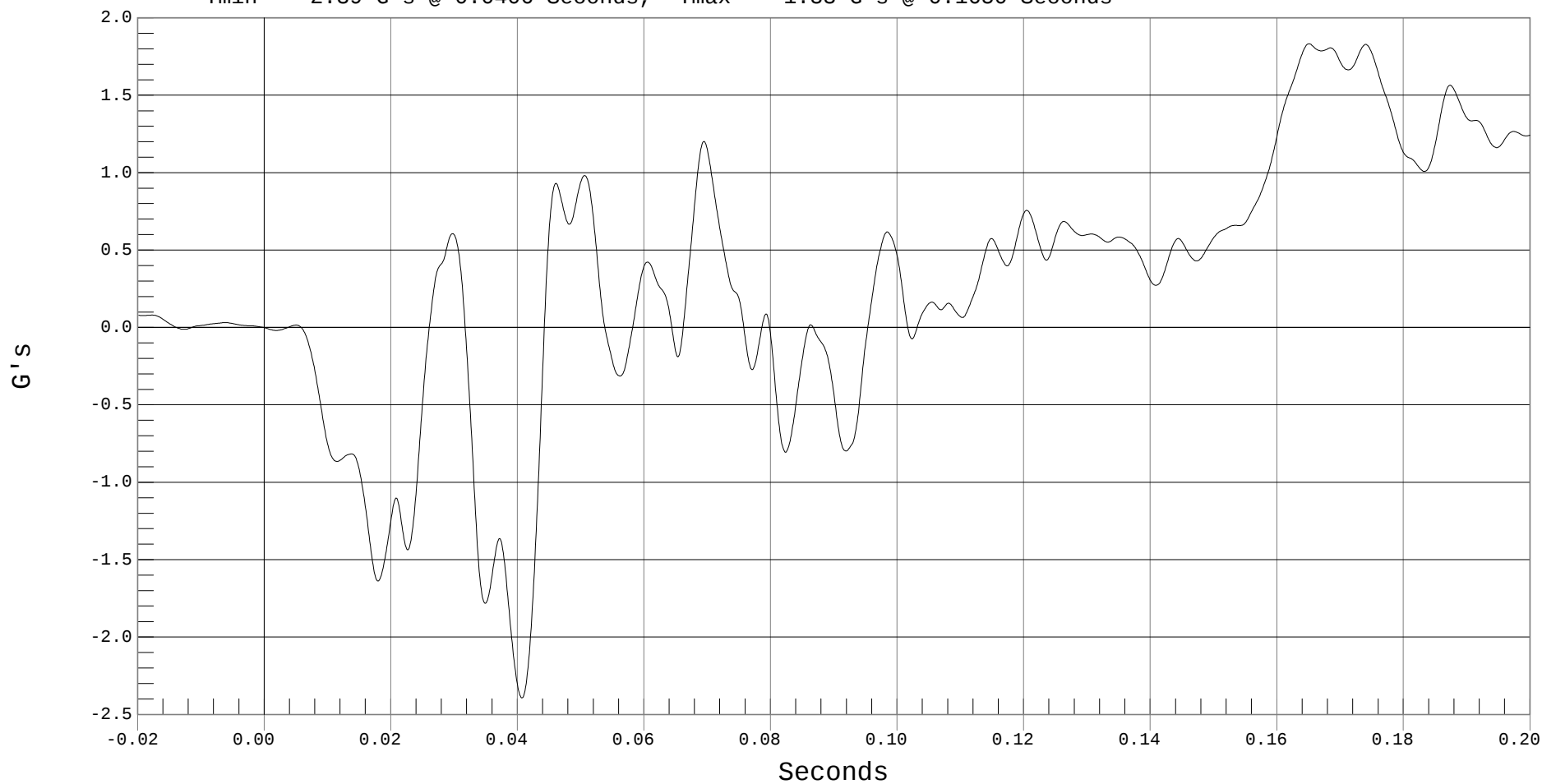
RIGHT SIDE SILL AT FRONT SEAT Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL Z, B01071AF.A27

Ymin = -2.39 G's @ 0.0406 Seconds, Ymax = 1.83 G's @ 0.1650 Seconds





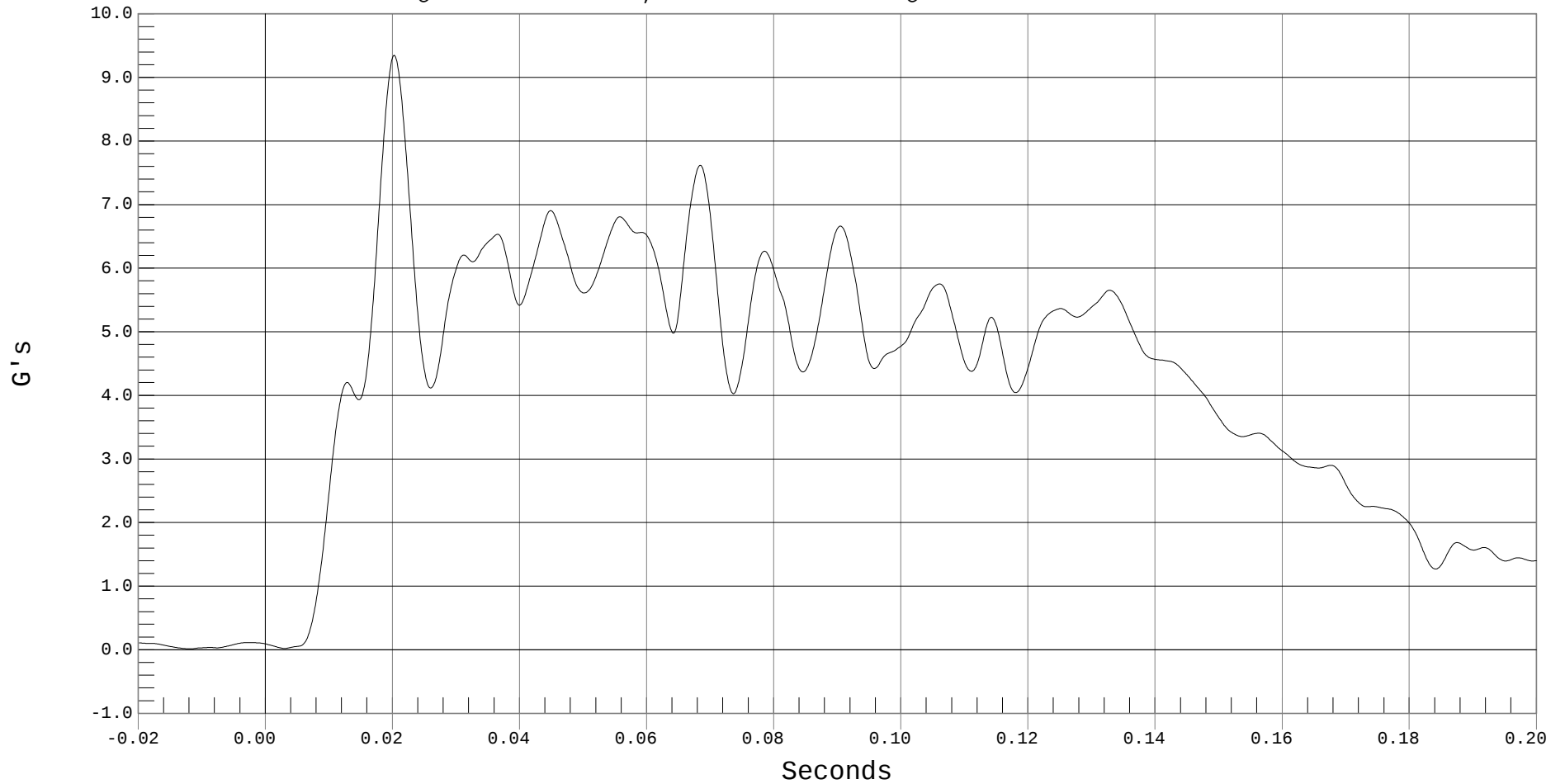
RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT FRONT SILL RESULTANT ACCELERATION, B01071AV.A25

Ymin = .01 G's @ -0.0119 Seconds, Ymax = 9.35 G's @ 0.0202 Seconds





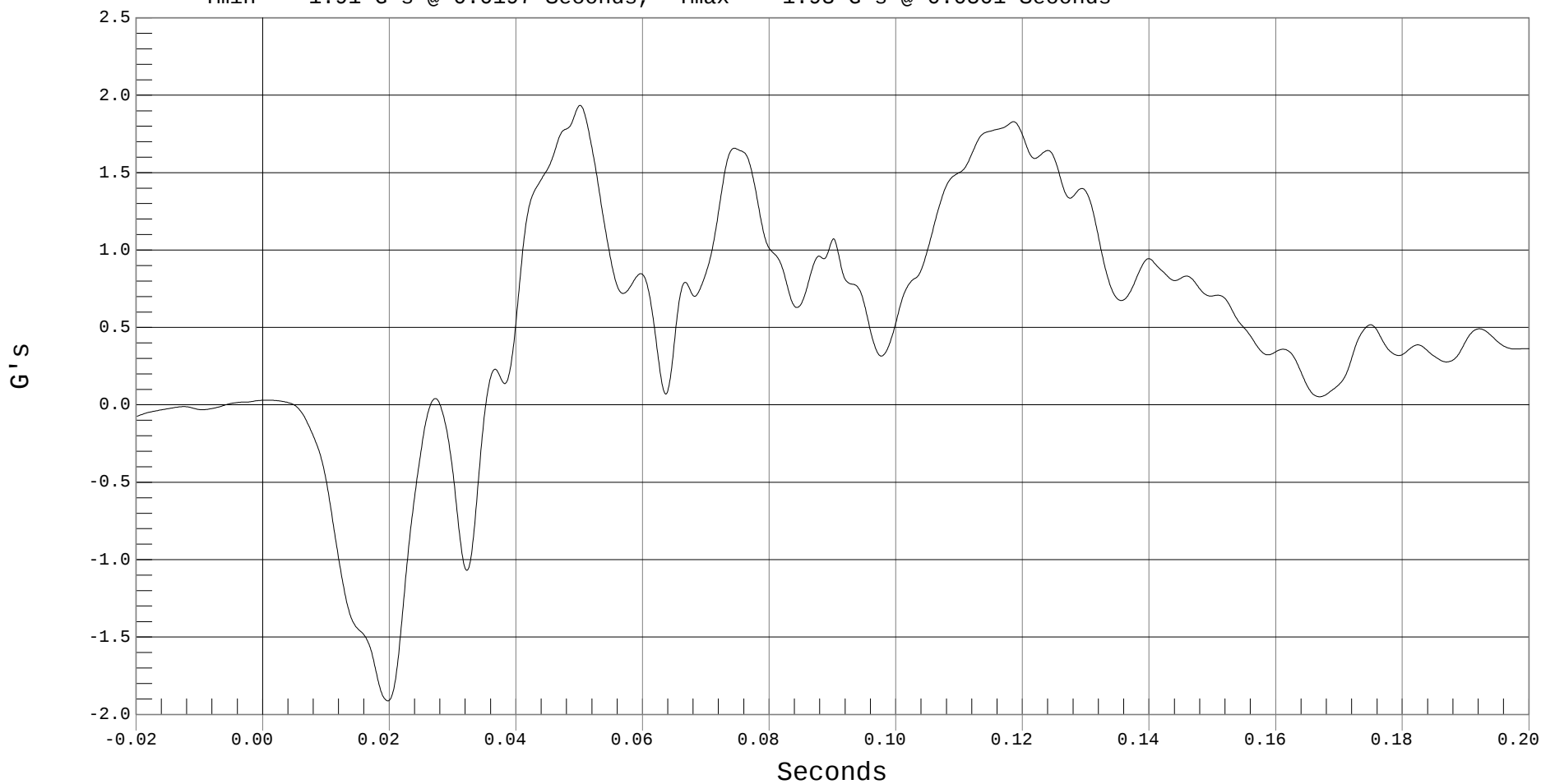
RIGHT SIDE SILL AT REAR SEAT X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT REAR SILL X, B01071AF.A28

Ymin = -1.91 G's @ 0.0197 Seconds, Ymax = 1.93 G's @ 0.0501 Seconds





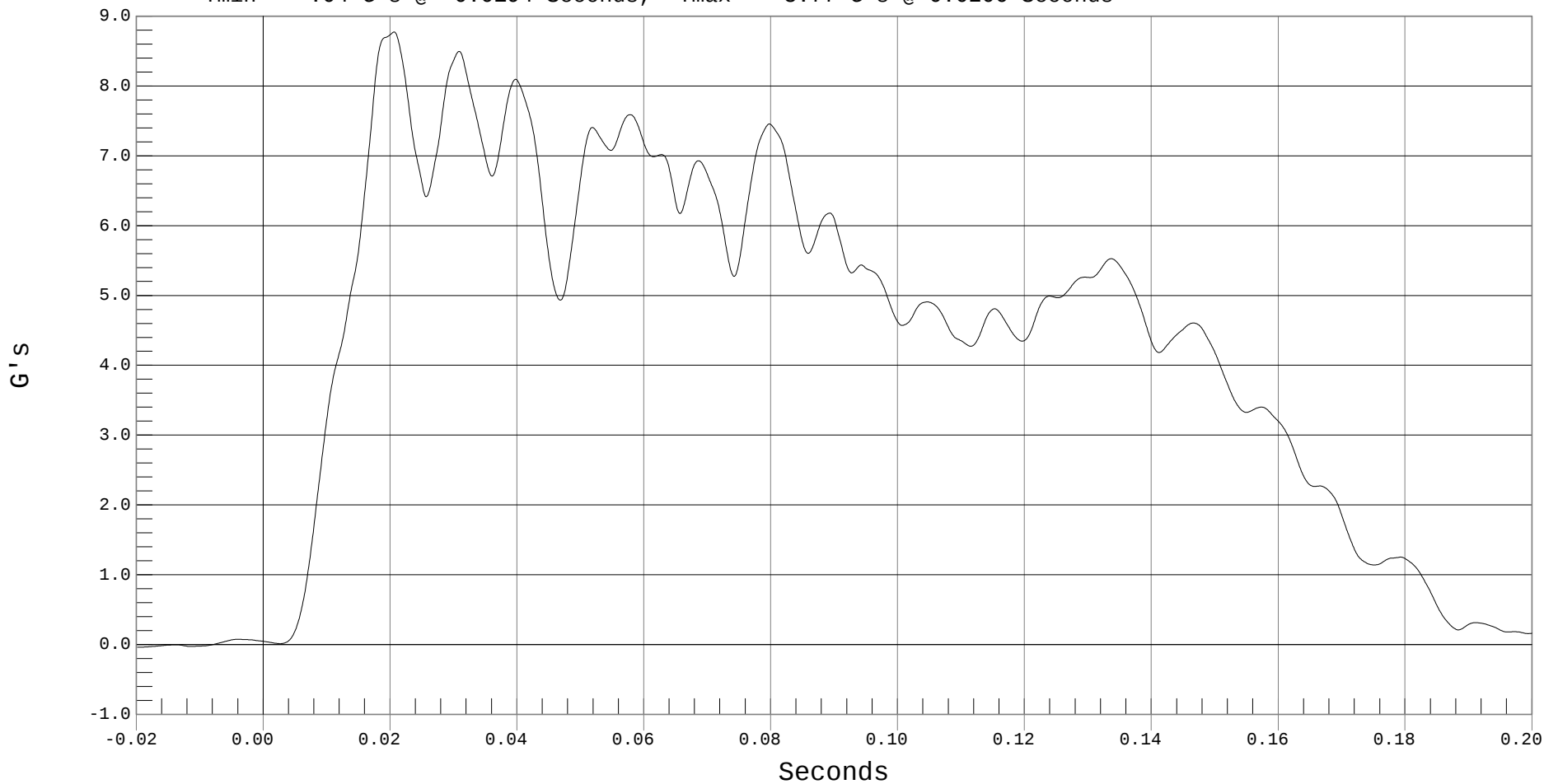
RIGHT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Y, B01071AF.A29

Ymin = -.04 G's @ -0.0194 Seconds, Ymax = 8.77 G's @ 0.0206 Seconds





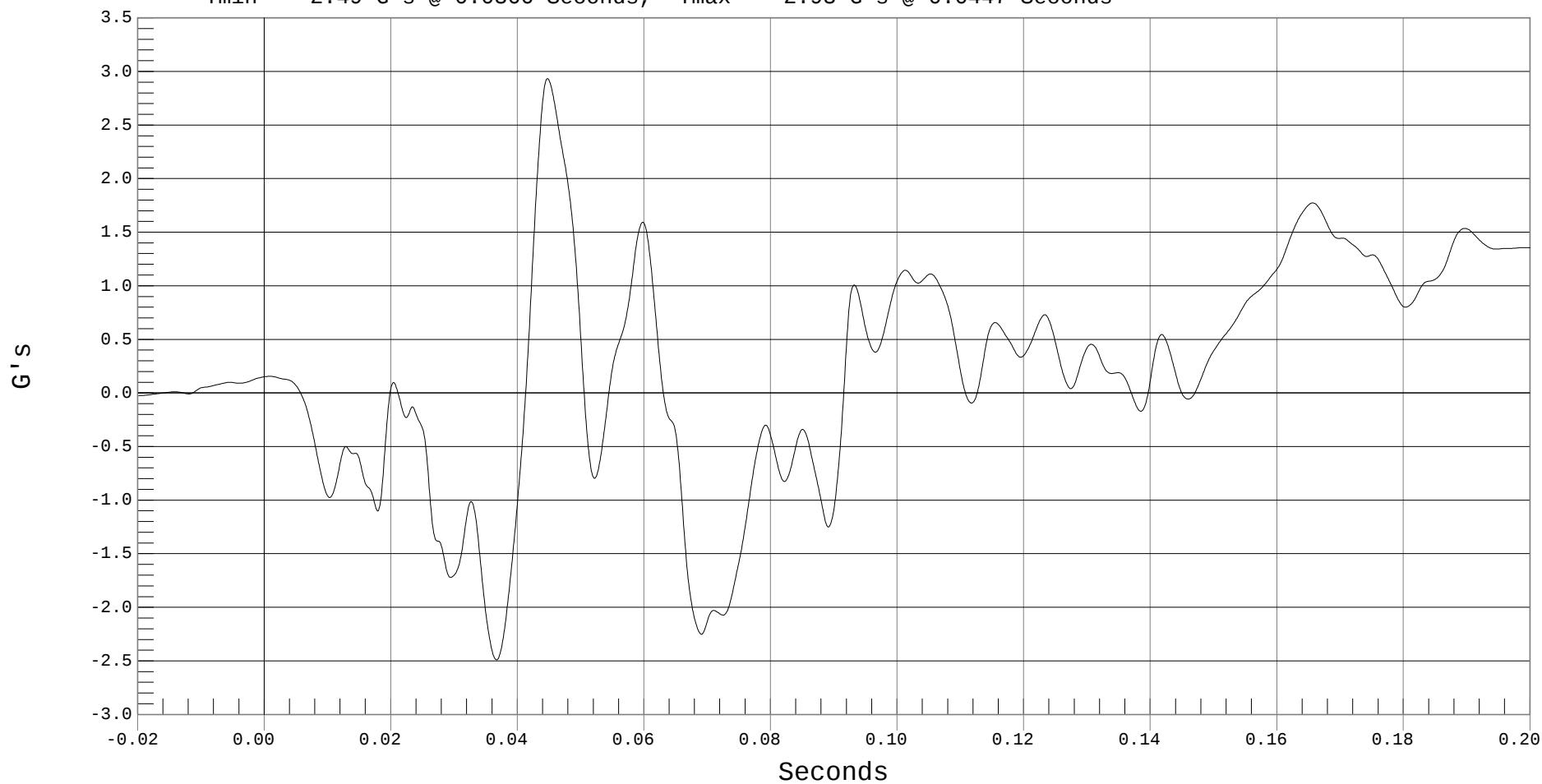
RIGHT SIDE SILL AT REAR SEAT Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT REAR SILL Z, B01071AF.A30

Ymin = -2.49 G's @ 0.0366 Seconds, Ymax = 2.93 G's @ 0.0447 Seconds





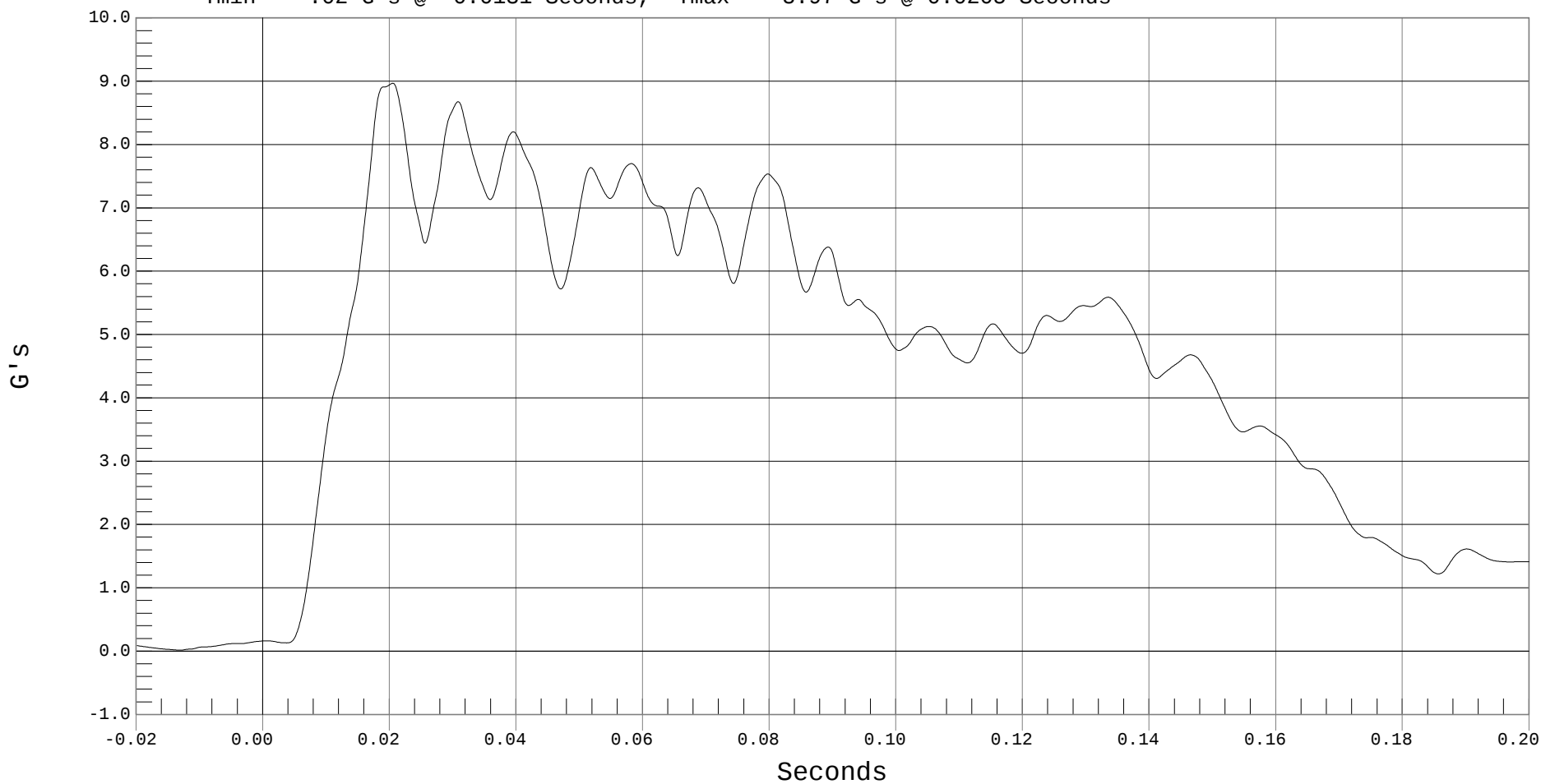
RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 RIGHT REAR SILL RESULTANT ACCELERATION, B01071AV.A28

Ymin = .02 G's @ -0.0131 Seconds, Ymax = 8.97 G's @ 0.0205 Seconds





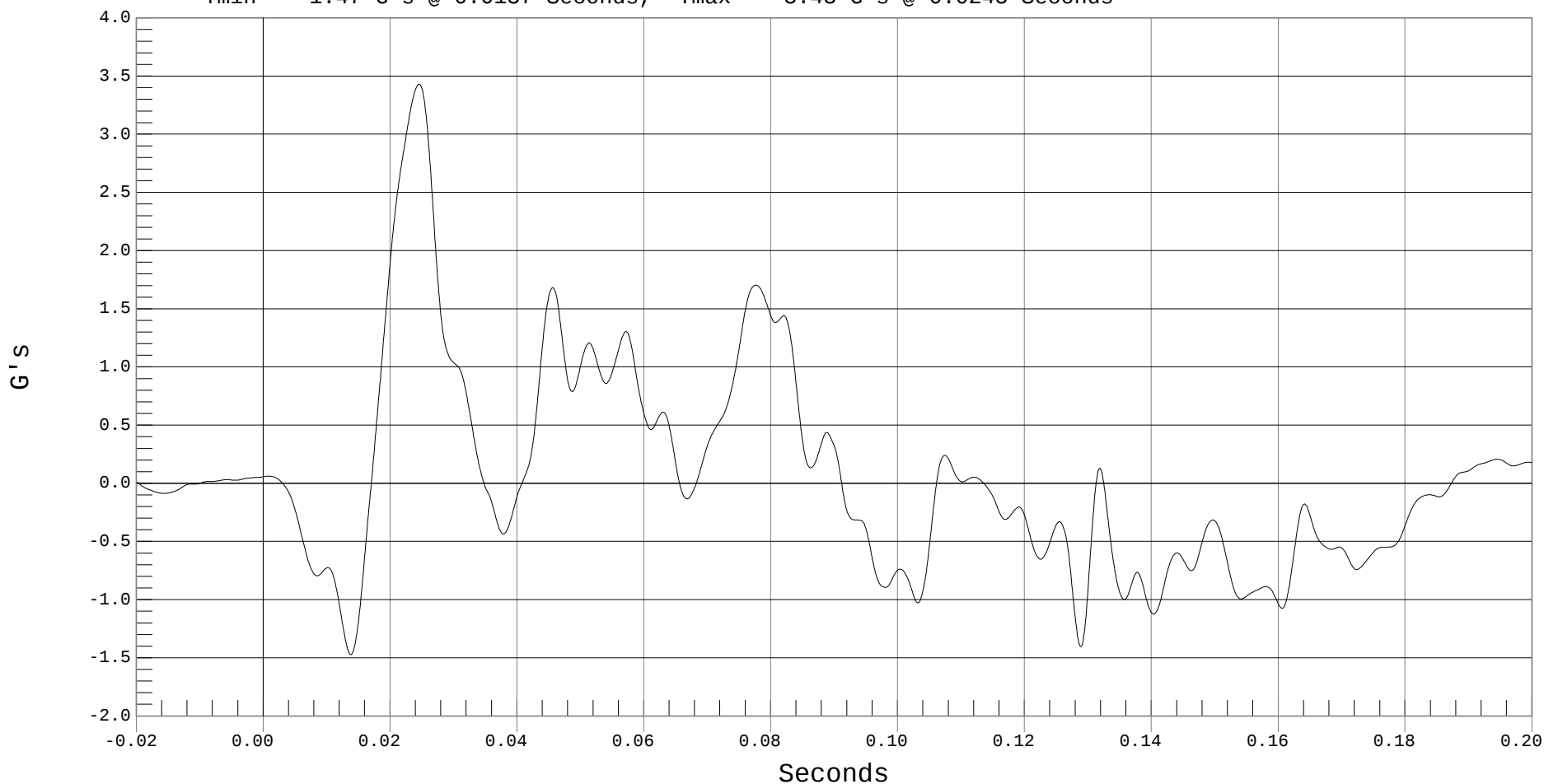
REAR FLOORPAN ABOVE AXLE X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE X, B01071AF.A34

Ymin = -1.47 G's @ 0.0137 Seconds, Ymax = 3.43 G's @ 0.0245 Seconds





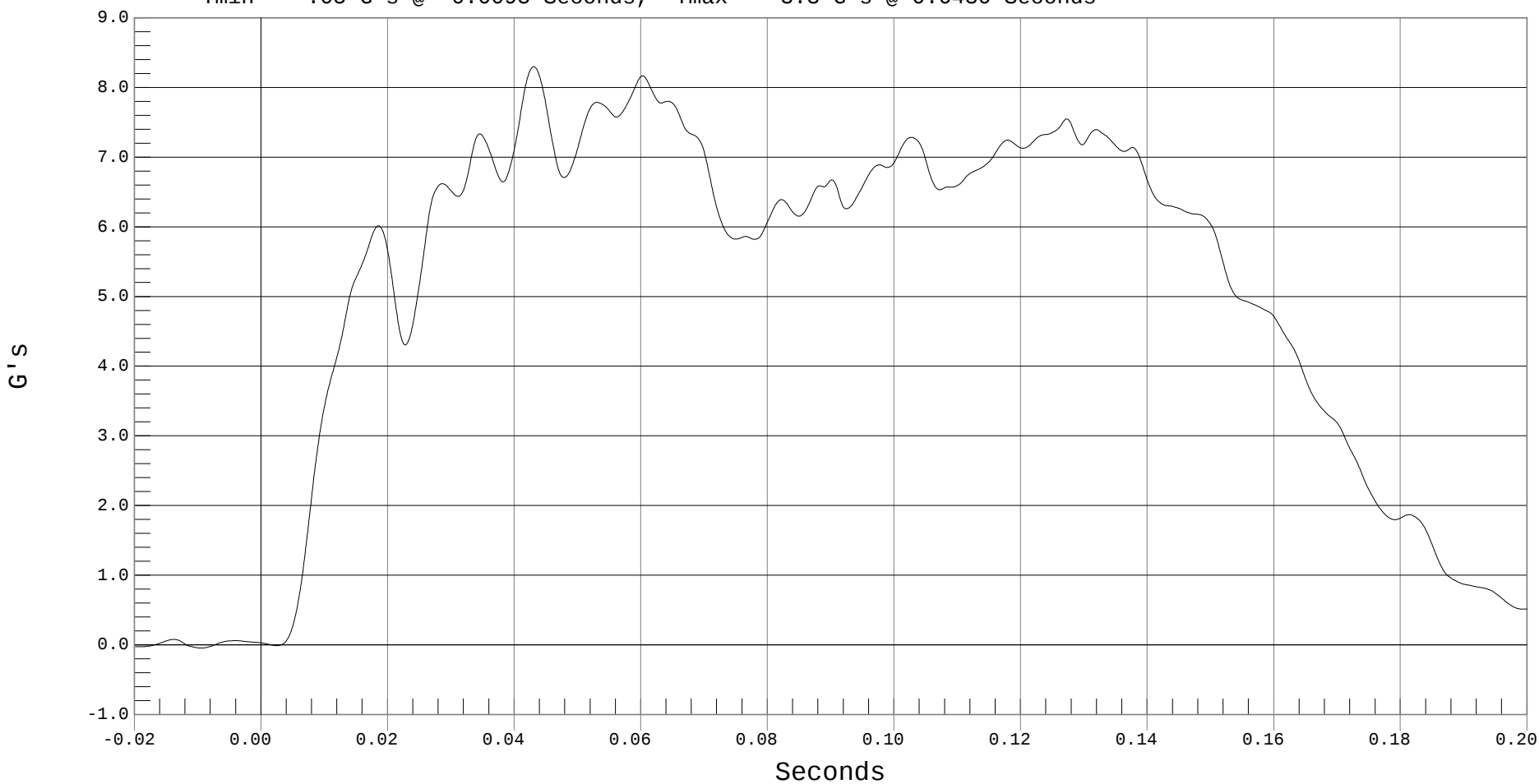
REAR FLOORPAN ABOVE AXLE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Y, B01071AF.A35

Ymin = -.05 G's @ -0.0095 Seconds, Ymax = 8.3 G's @ 0.0430 Seconds





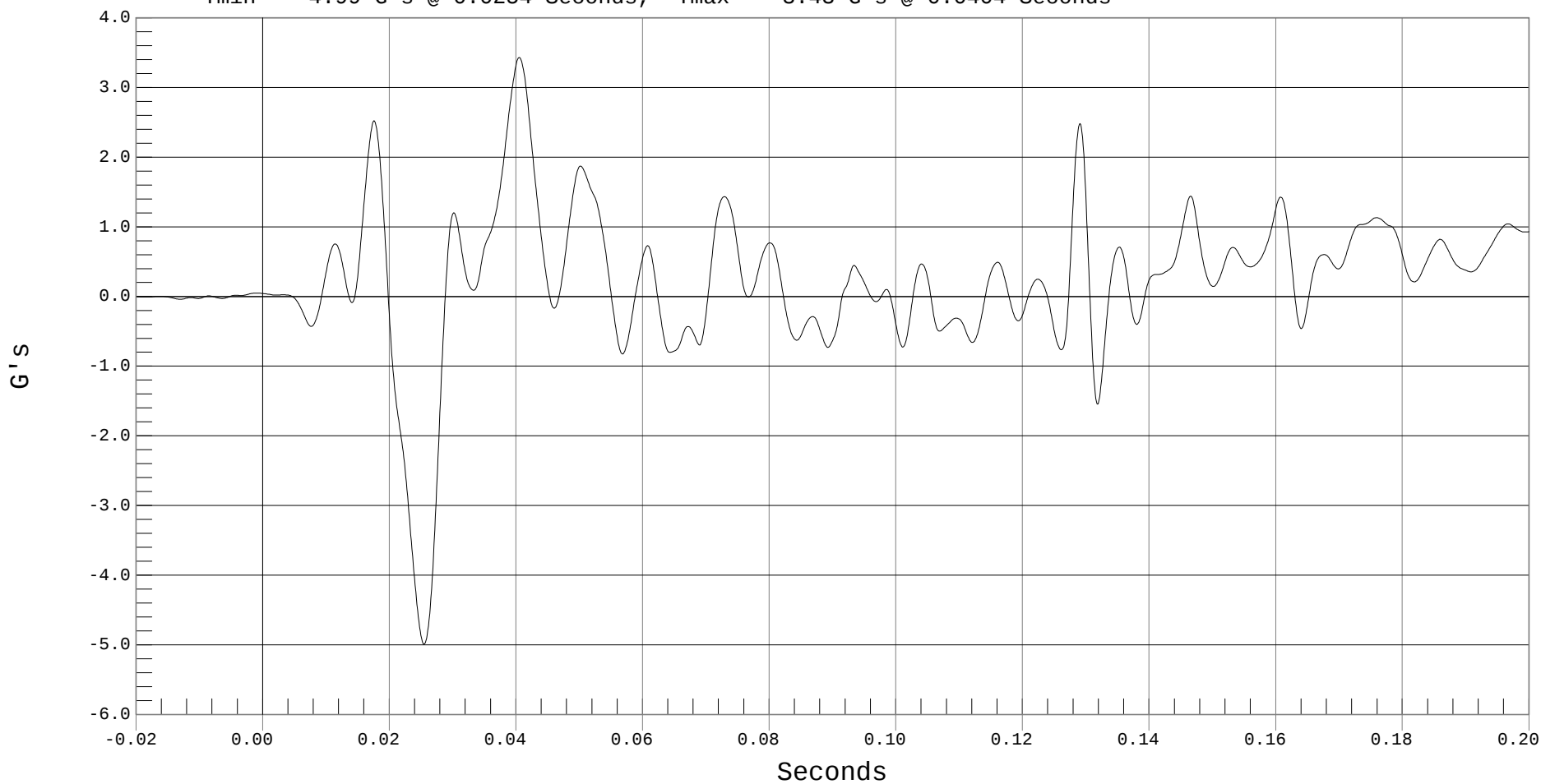
REAR FLOORPAN ABOVE AXLE Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE Z, B01071AF.A36

Ymin = -4.99 G's @ 0.0254 Seconds, Ymax = 3.43 G's @ 0.0404 Seconds





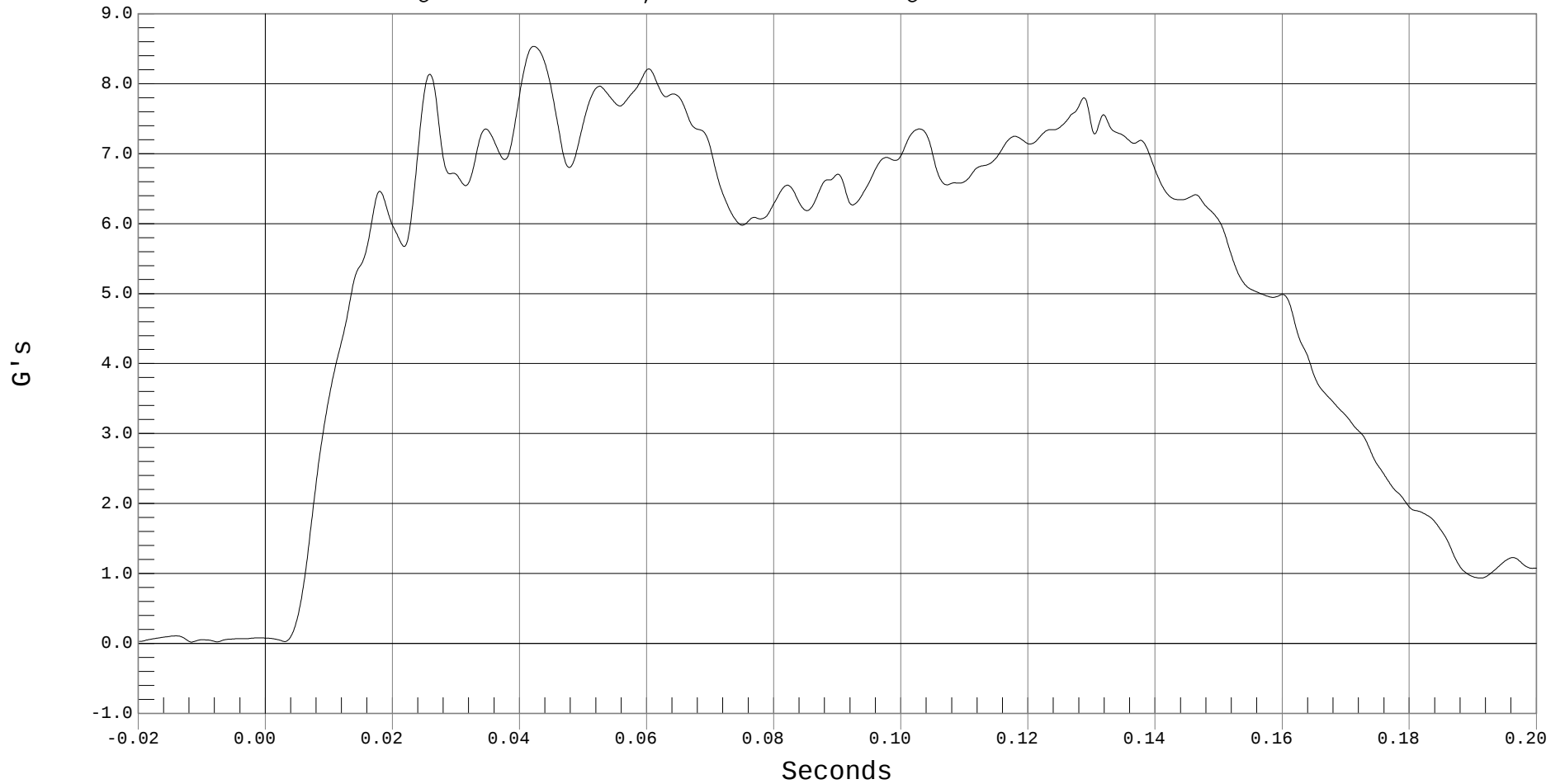
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 FLOORPAN @ REAR AXLE ACCELERATION, B01071AV.A34

Ymin = .02 G's @ -0.0117 Seconds, Ymax = 8.53 G's @ 0.0422 Seconds





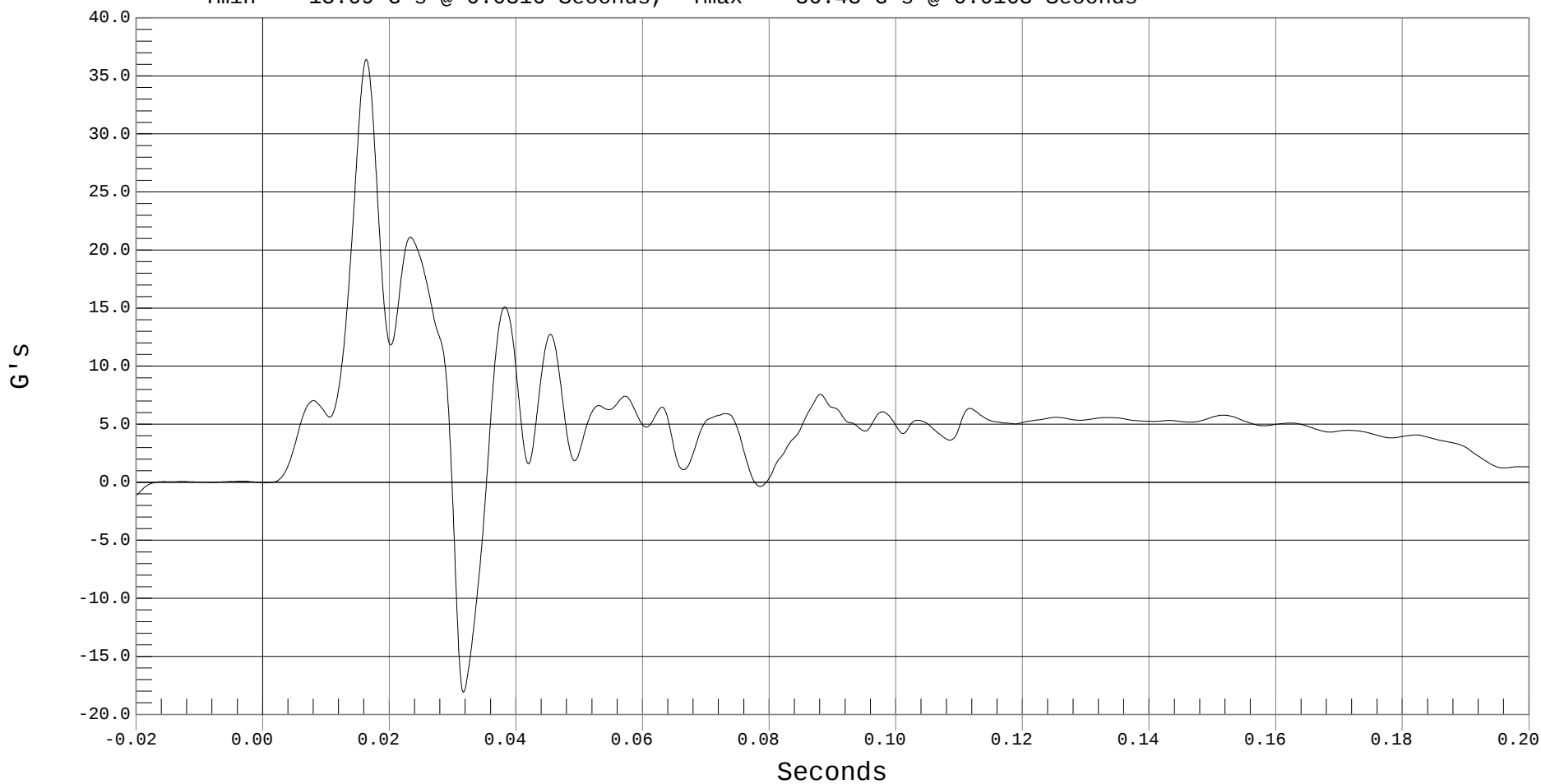
LEFT SIDE SILL AT FRONT SEAT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT FRONT SILL Y, B01071AF.A31

Ymin = -18.09 G's @ 0.0316 Seconds, Ymax = 36.43 G's @ 0.0163 Seconds





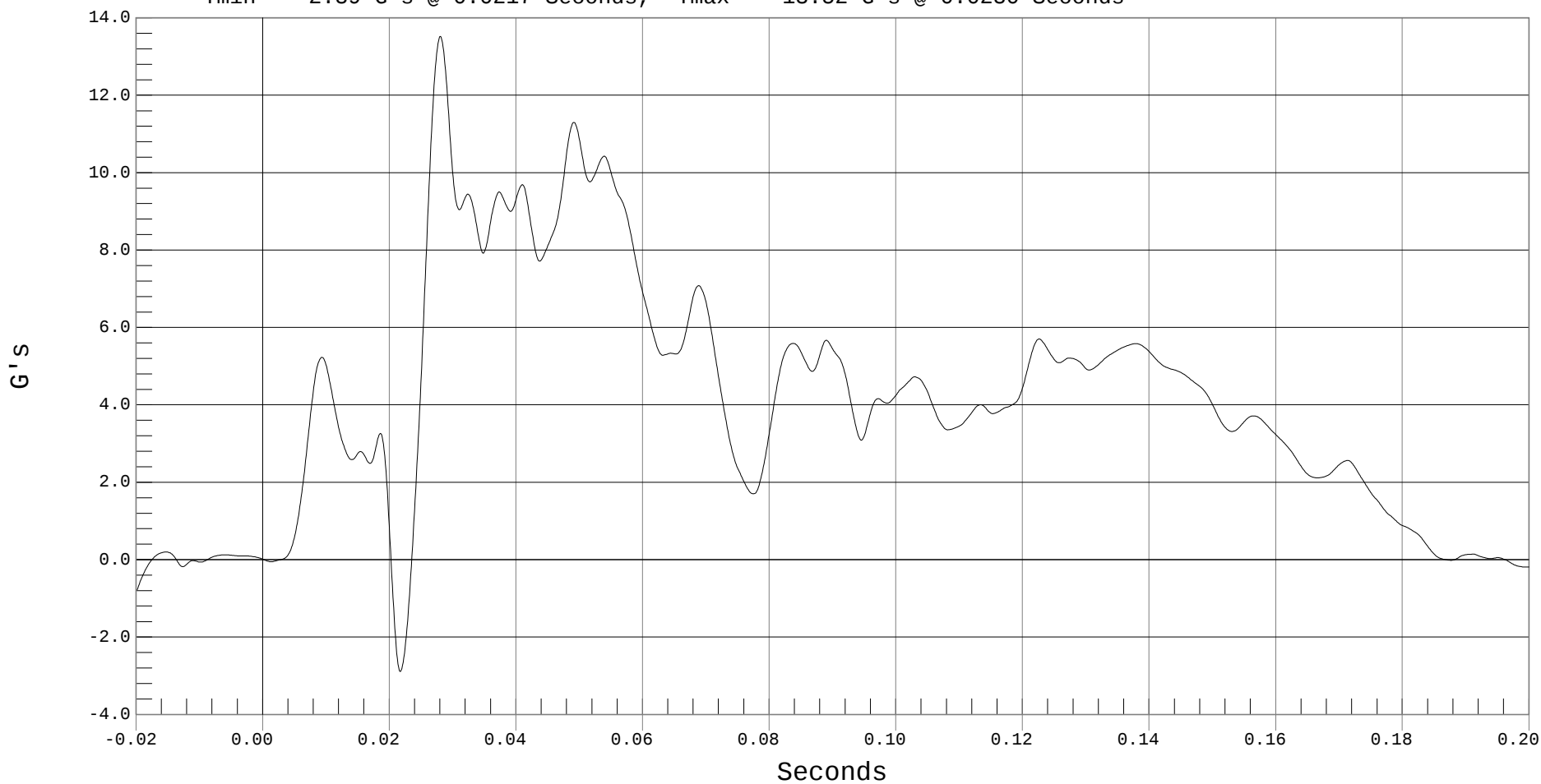
LEFT SIDE SILL AT REAR SEAT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT REAR SILL Y, B01071AF.A33

Ymin = -2.89 G's @ 0.0217 Seconds, Ymax = 13.52 G's @ 0.0280 Seconds





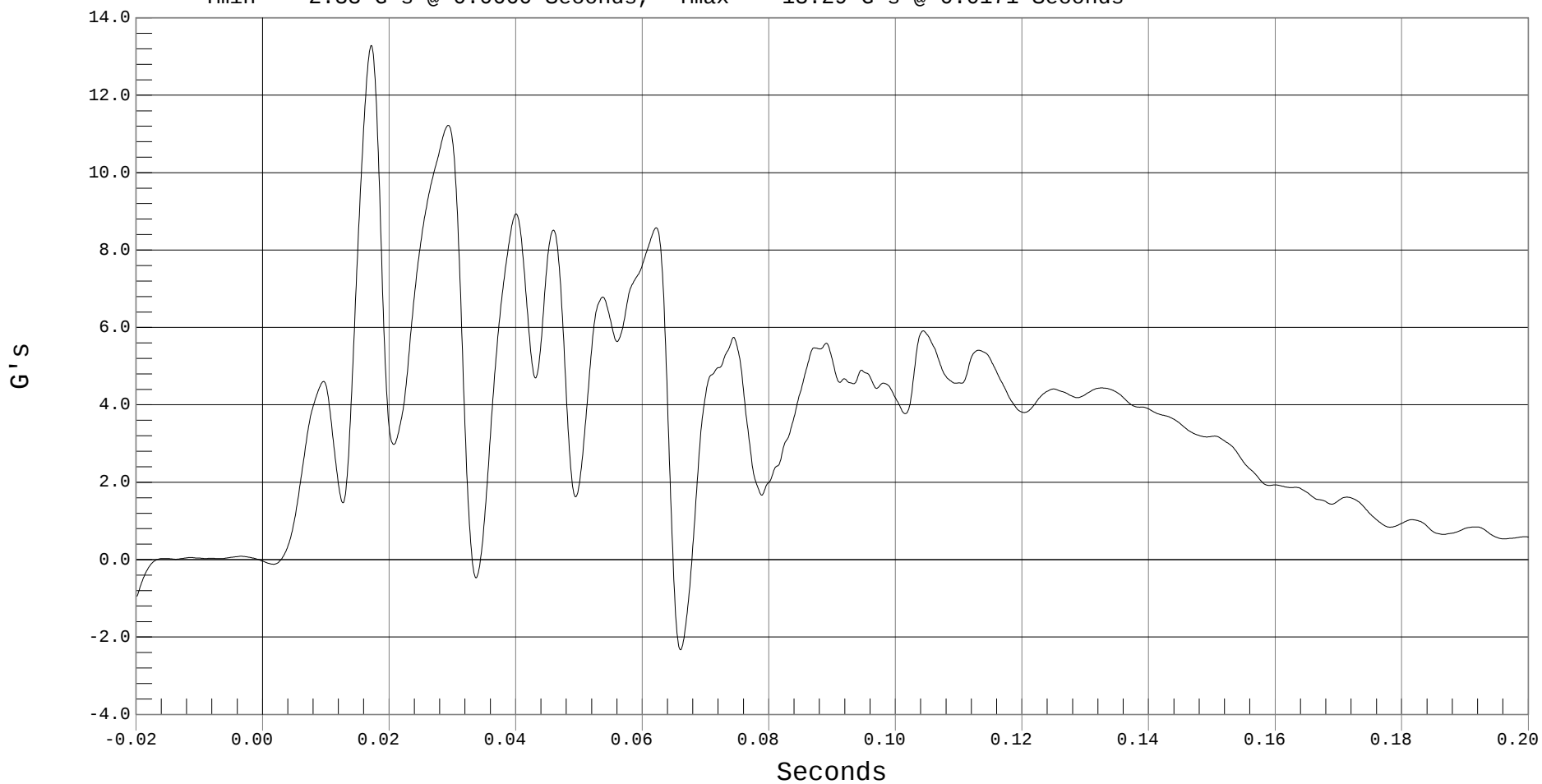
LEFT LOWER A-POST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

1 LEFT LOWER A-POST Y, B01071AF.A38

Ymin = -2.33 G's @ 0.0660 Seconds, Ymax = 13.29 G's @ 0.0171 Seconds





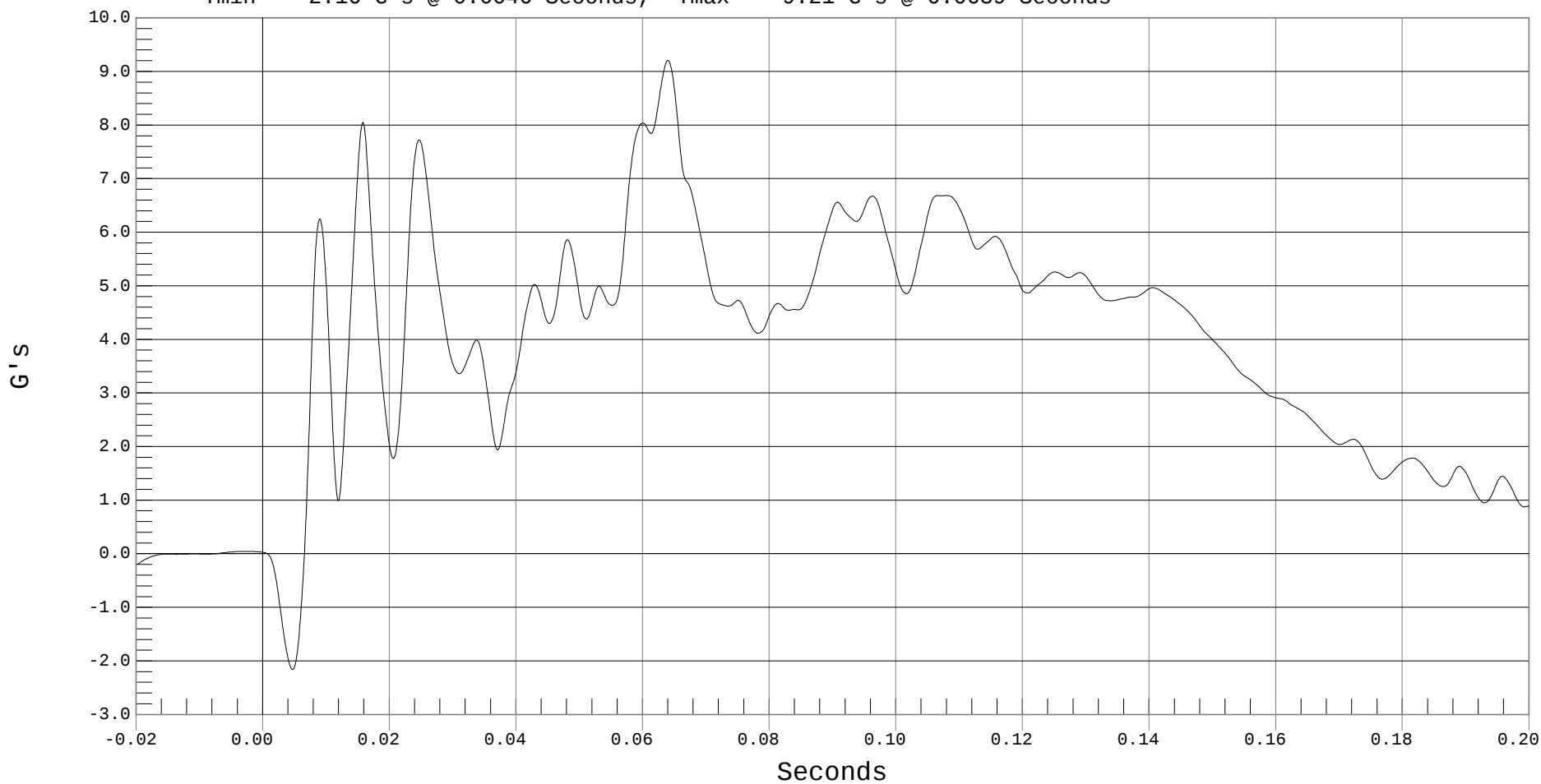
LEFT MID A-POST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT MID A-POST Y, B01071AF.A37

Ymin = -2.16 G's @ 0.0046 Seconds, Ymax = 9.21 G's @ 0.0639 Seconds





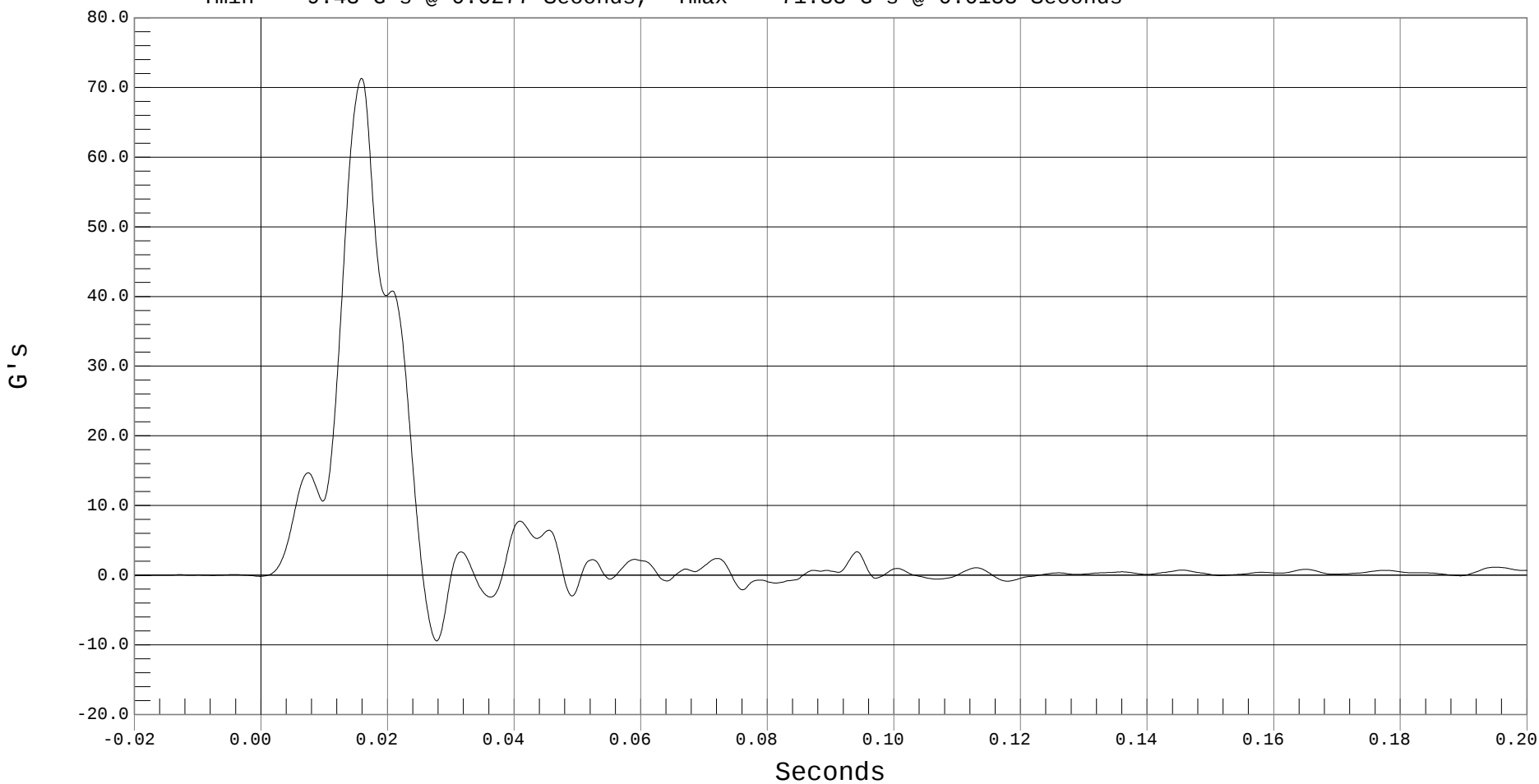
LEFT LOWER B-POST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LOWER B-POST Y, B01071AF.A41

Ymin = -9.43 G's @ 0.0277 Seconds, Ymax = 71.33 G's @ 0.0158 Seconds





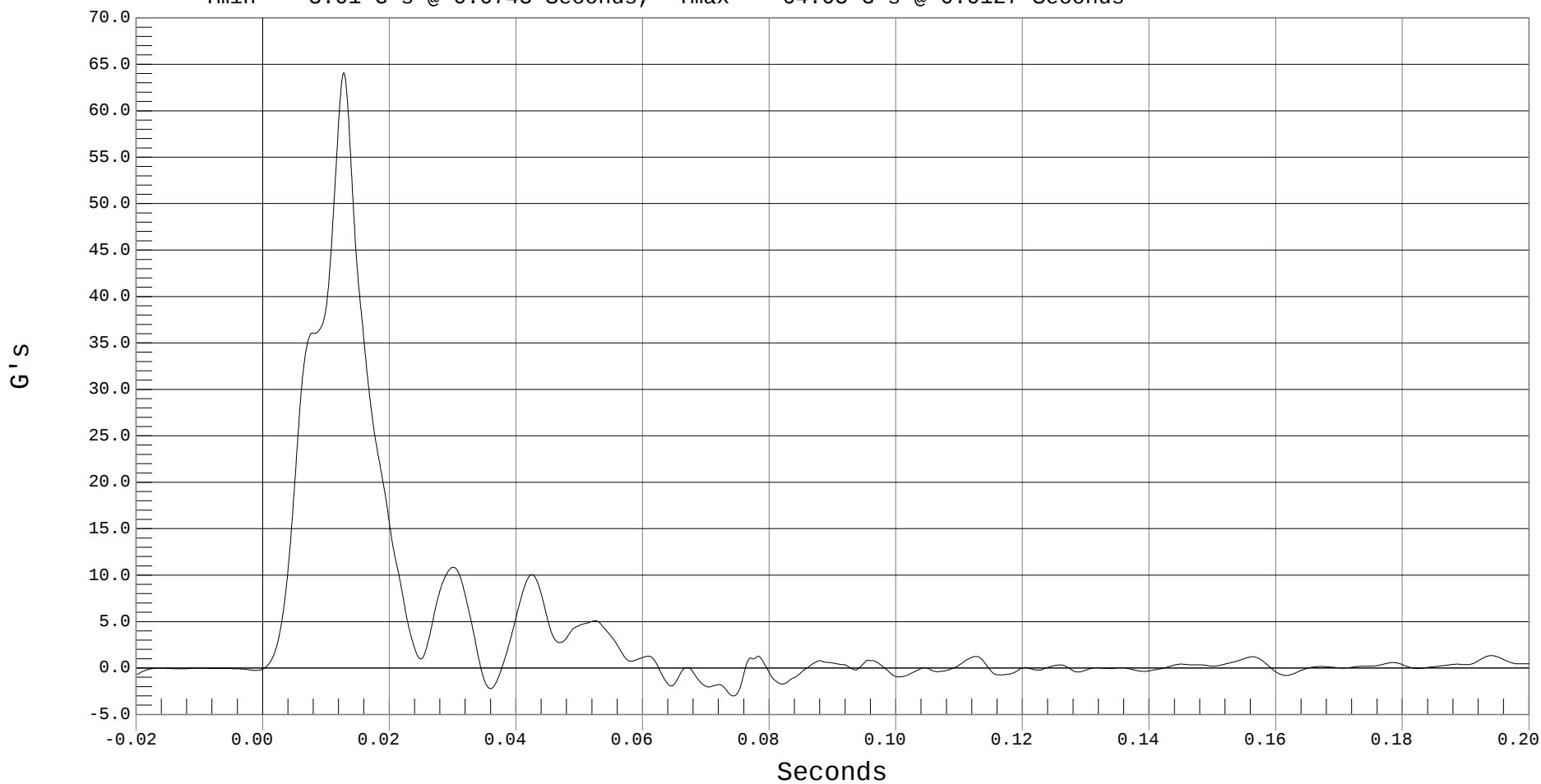
LEFT MID B-POST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT MID B-POST Y, B01071AF.A40

Ymin = -3.01 G's @ 0.0743 Seconds, Ymax = 64.08 G's @ 0.0127 Seconds





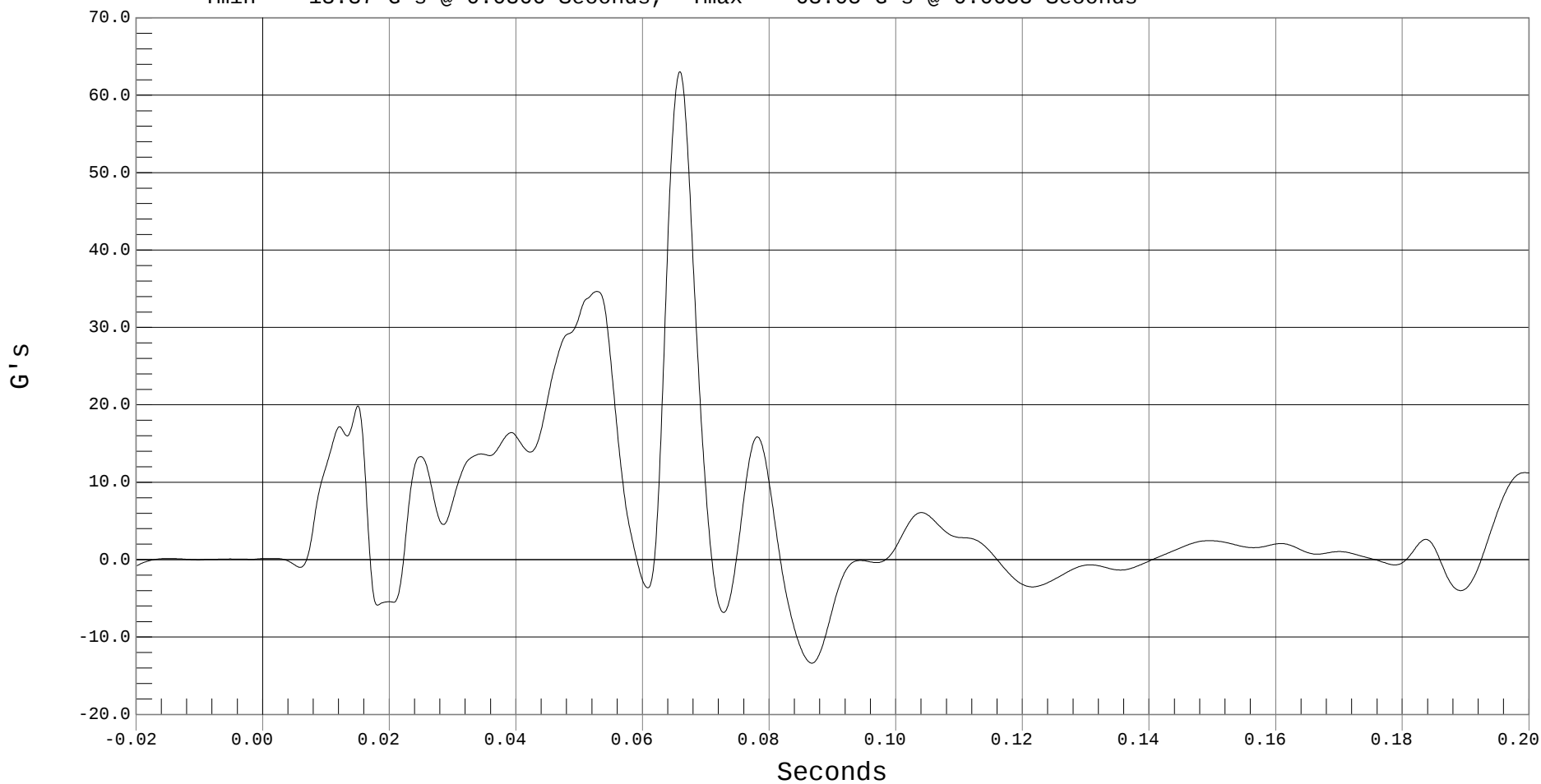
LEFT UPPER B-POST Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT UPPER B-POST Y, B01071AF.A39

Ymin = -13.37 G's @ 0.0866 Seconds, Ymax = 63.05 G's @ 0.0658 Seconds





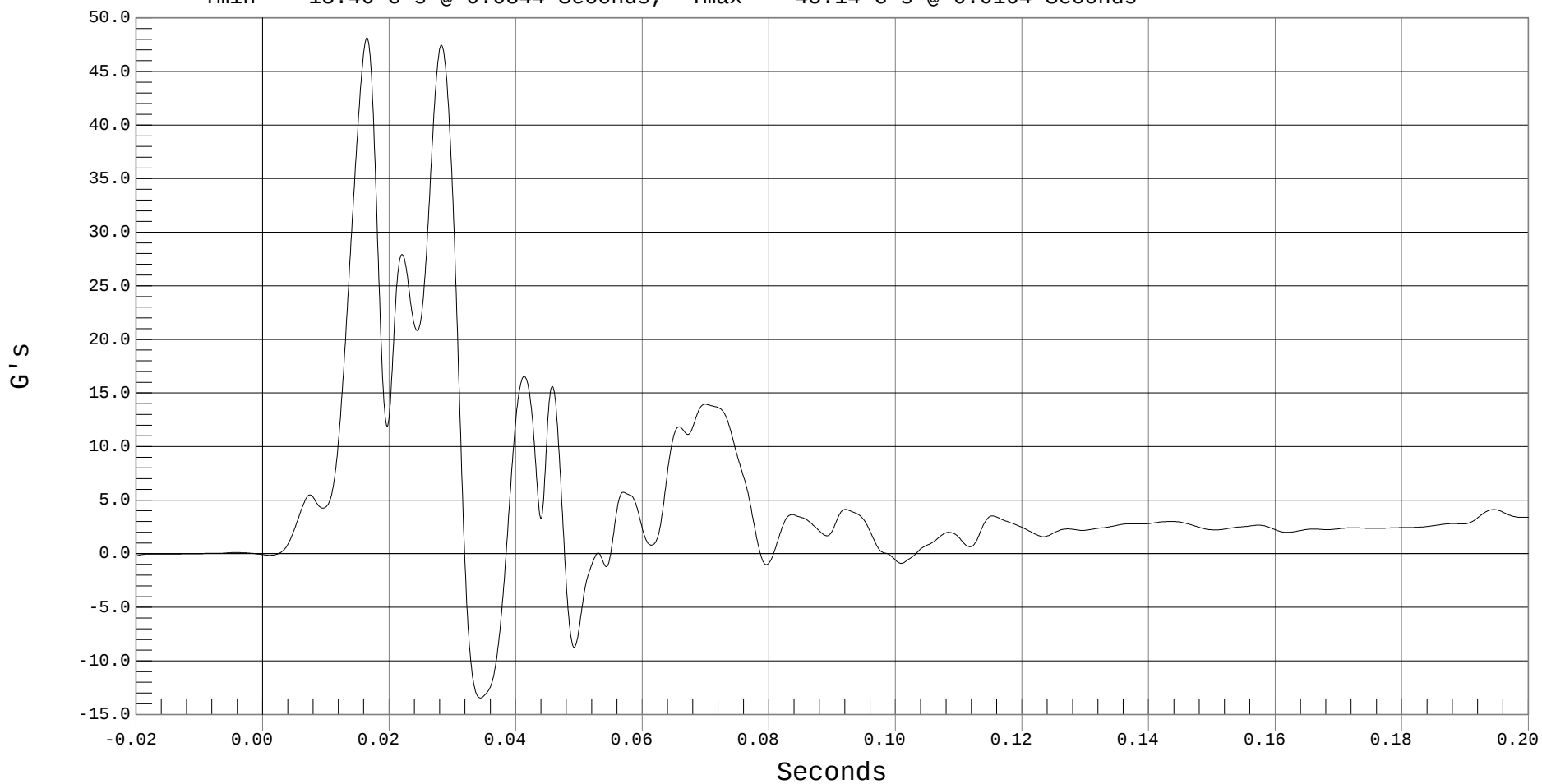
LEFT DRIVER SEAT TRACK Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 DRIVER LEFT SEAT TRACK Y, B01071AF.A42

Ymin = -13.46 G's @ 0.0344 Seconds, Ymax = 48.14 G's @ 0.0164 Seconds





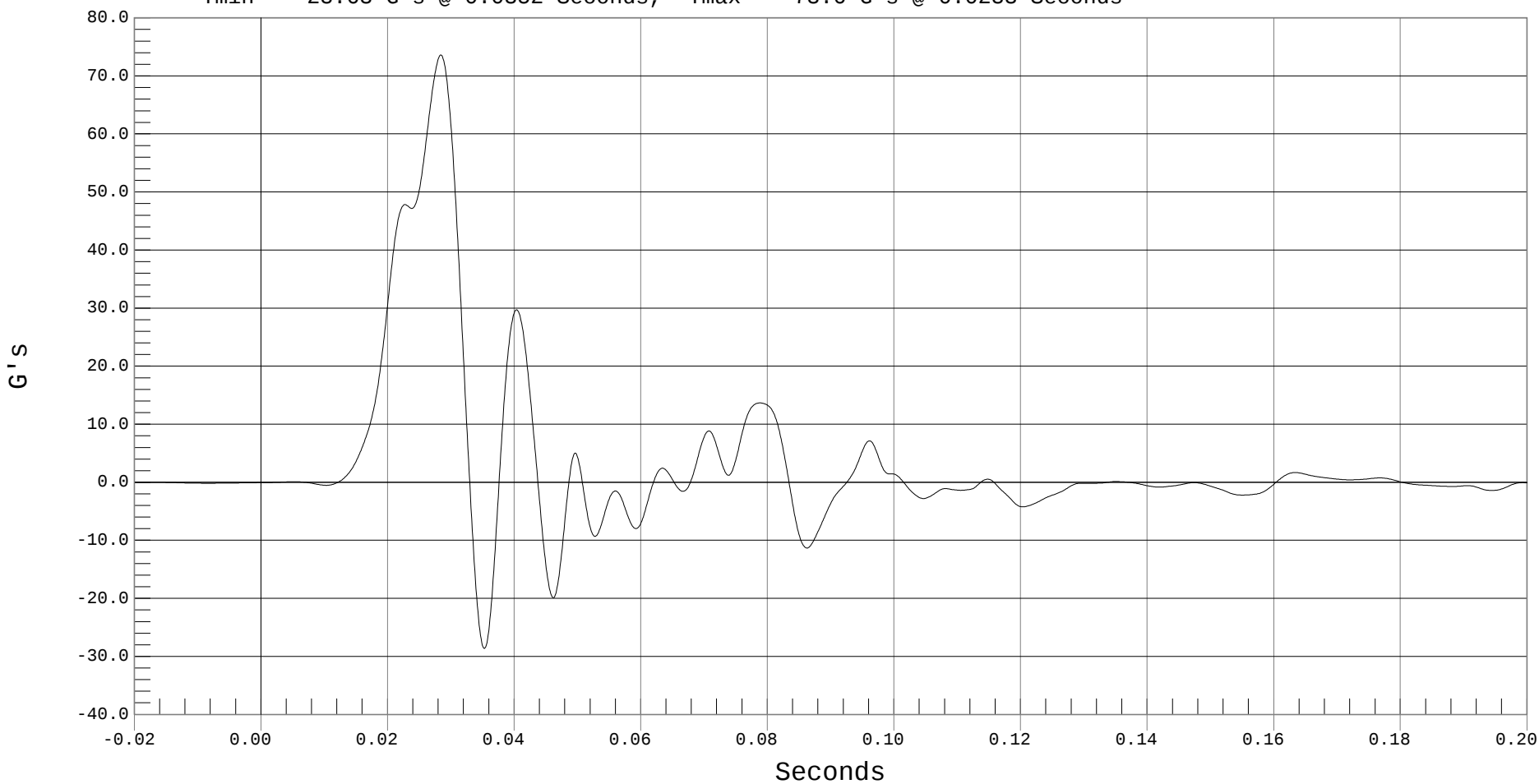
DRIVER LEFT SEAT FRAME Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 DRIVER LEFT SEAT FRAME Y, B01071AF.A55

Ymin = -28.63 G's @ 0.0352 Seconds, Ymax = 73.6 G's @ 0.0283 Seconds





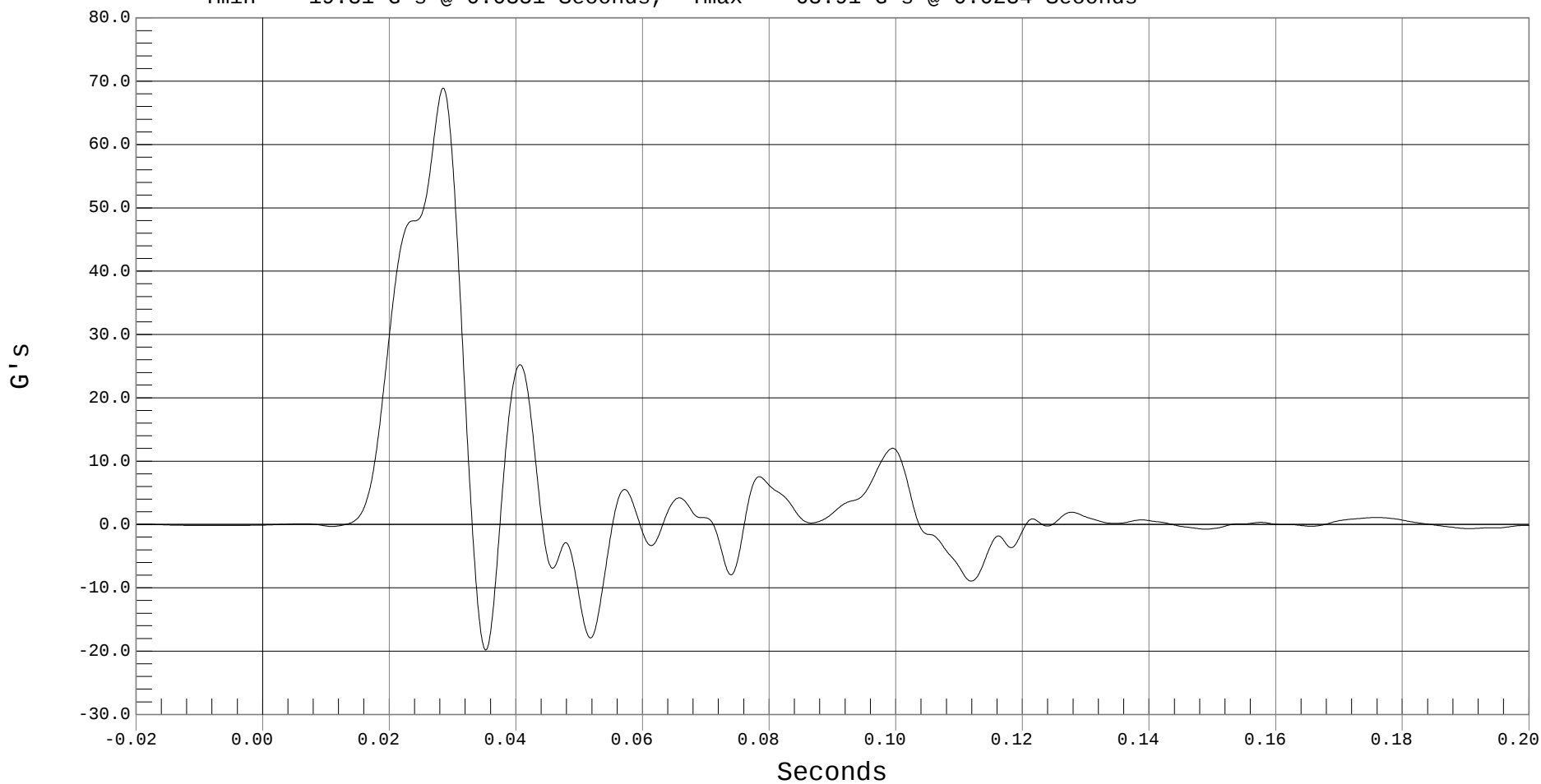
DRIVER RIGHT SEAT FRAME Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 DRIVER RIGHT SEAT FRAME Y, B01071AF.A43

Ymin = -19.81 G's @ 0.0351 Seconds, Ymax = 68.91 G's @ 0.0284 Seconds





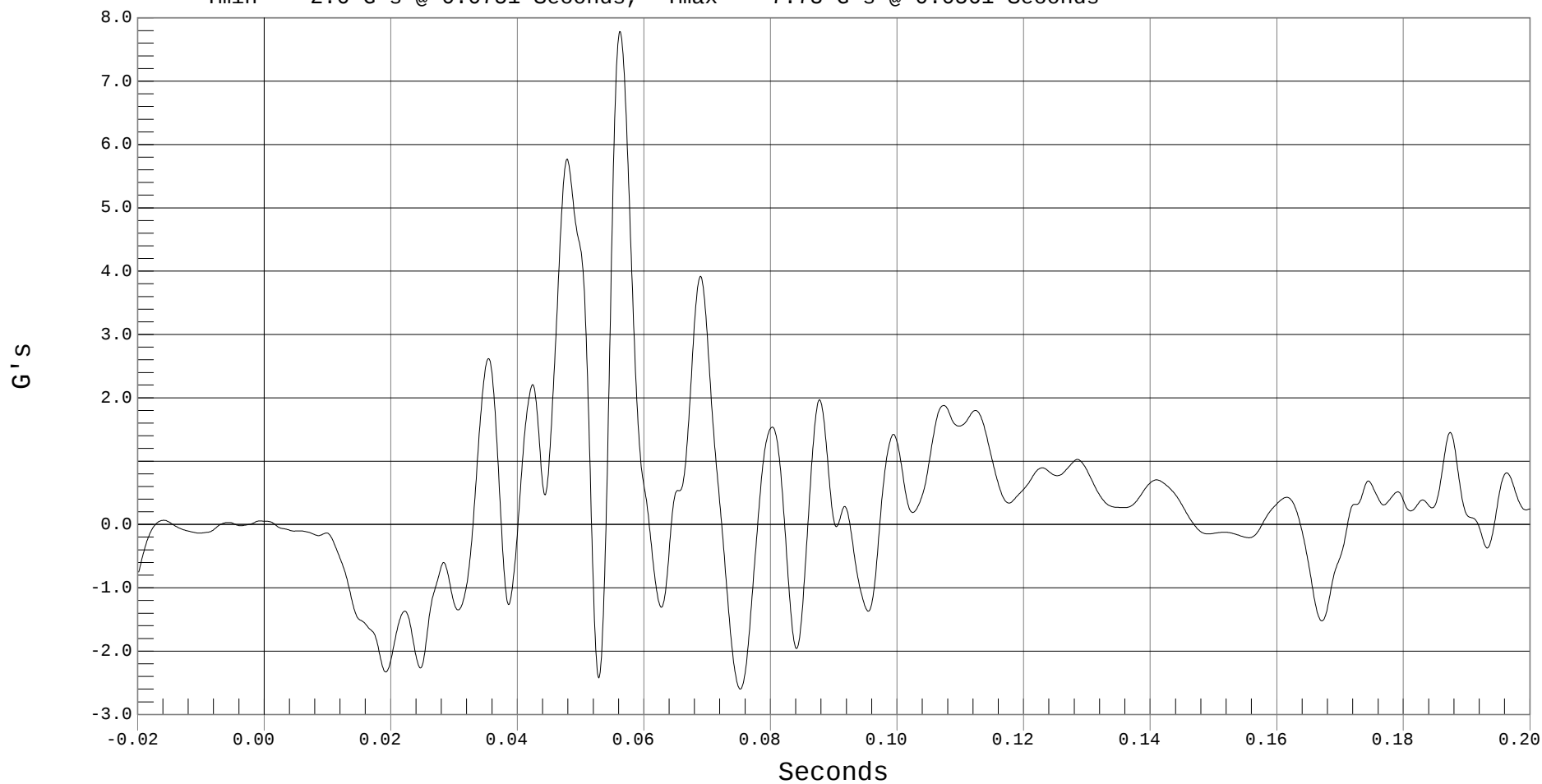
VEHICLE CG X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 VEHICLE CG X, B01071AF.A44

Ymin = -2.6 G's @ 0.0751 Seconds, Ymax = 7.78 G's @ 0.0561 Seconds





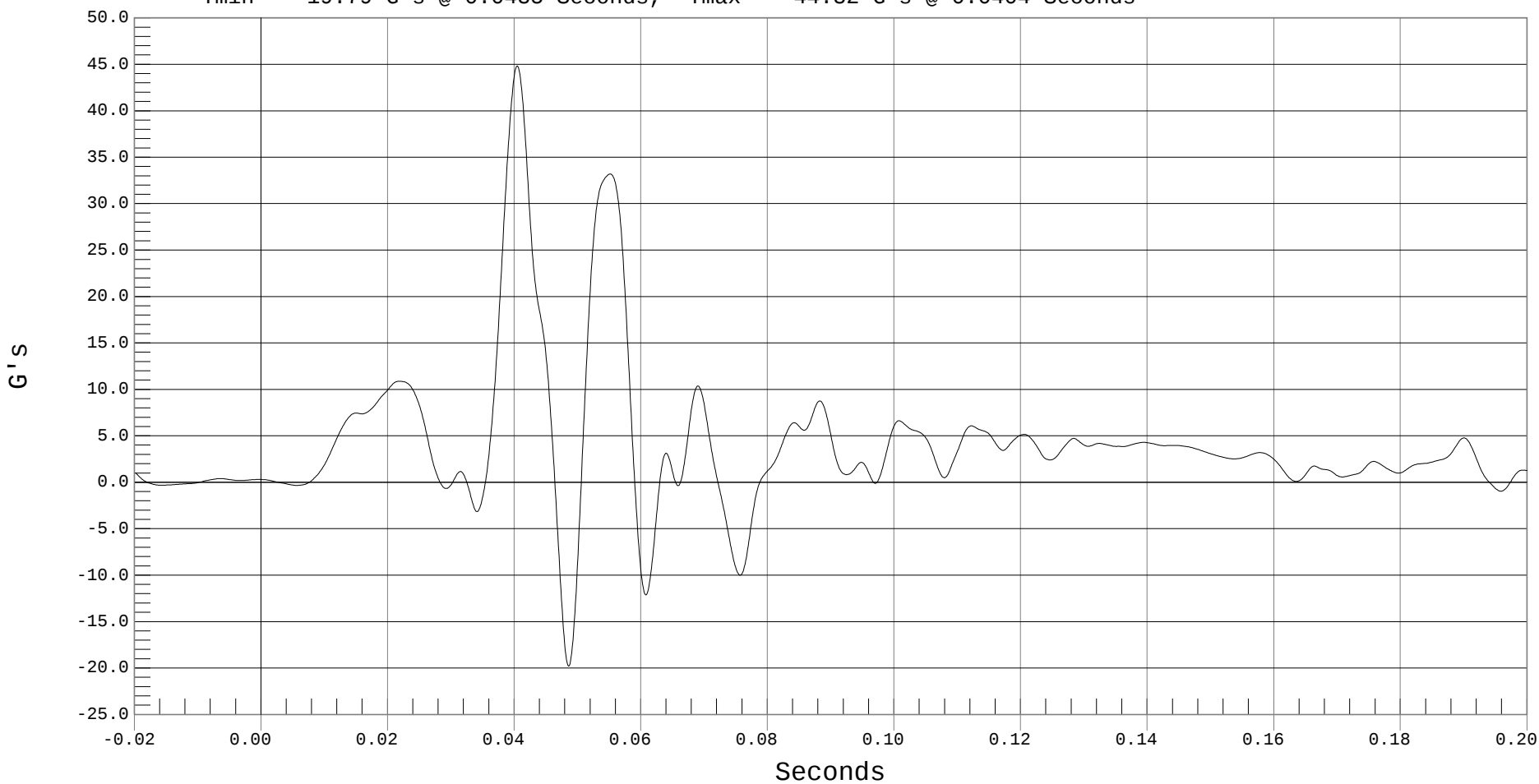
VEHICLE CG Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 VEHICLE CG Y, B01071AF.A45

Ymin = -19.79 G's @ 0.0485 Seconds, Ymax = 44.82 G's @ 0.0404 Seconds





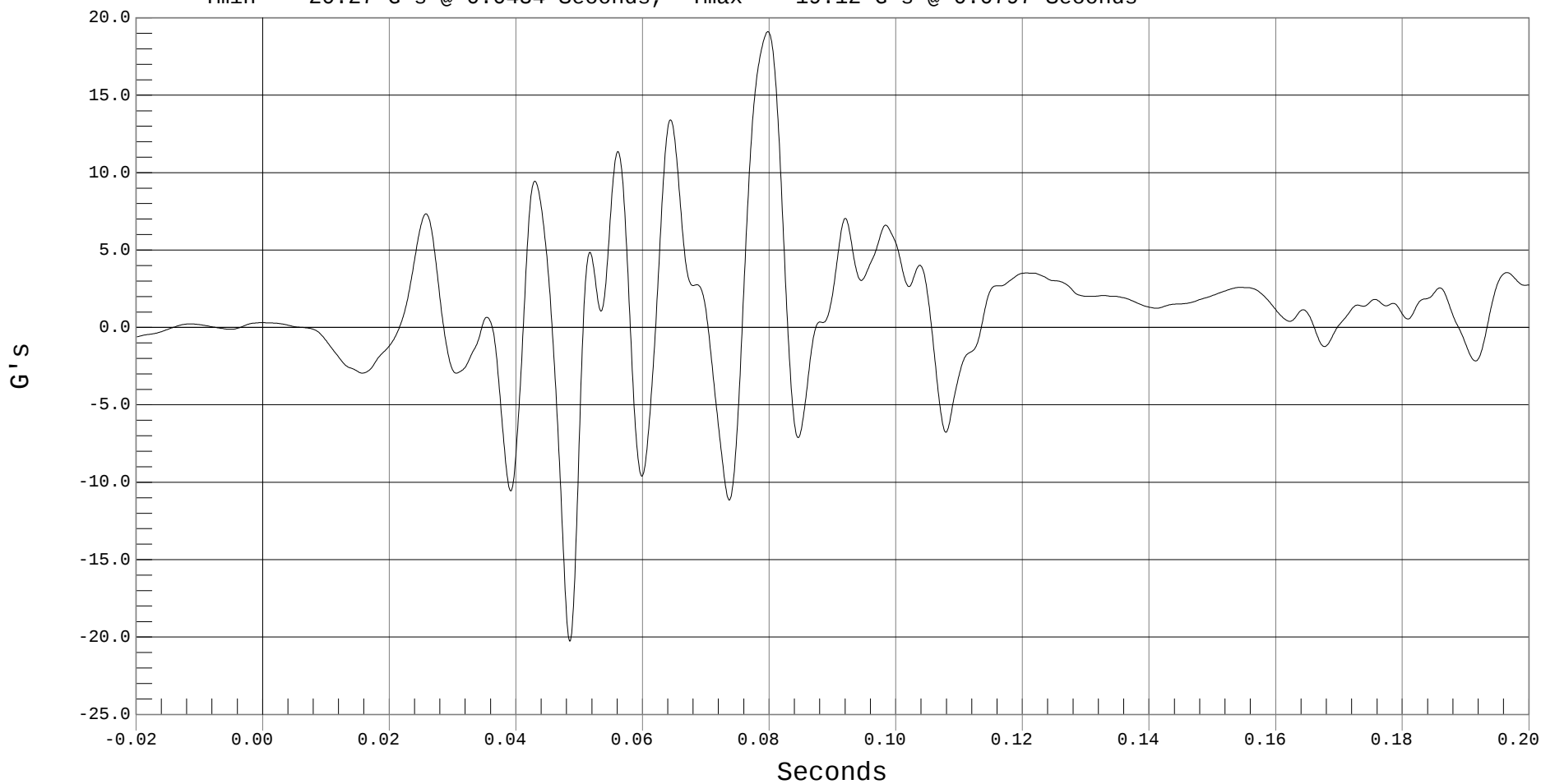
VEHICLE CG Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 VEHICLE CG Z, B01071AF.A46

Ymin = -20.27 G's @ 0.0484 Seconds, Ymax = 19.12 G's @ 0.0797 Seconds





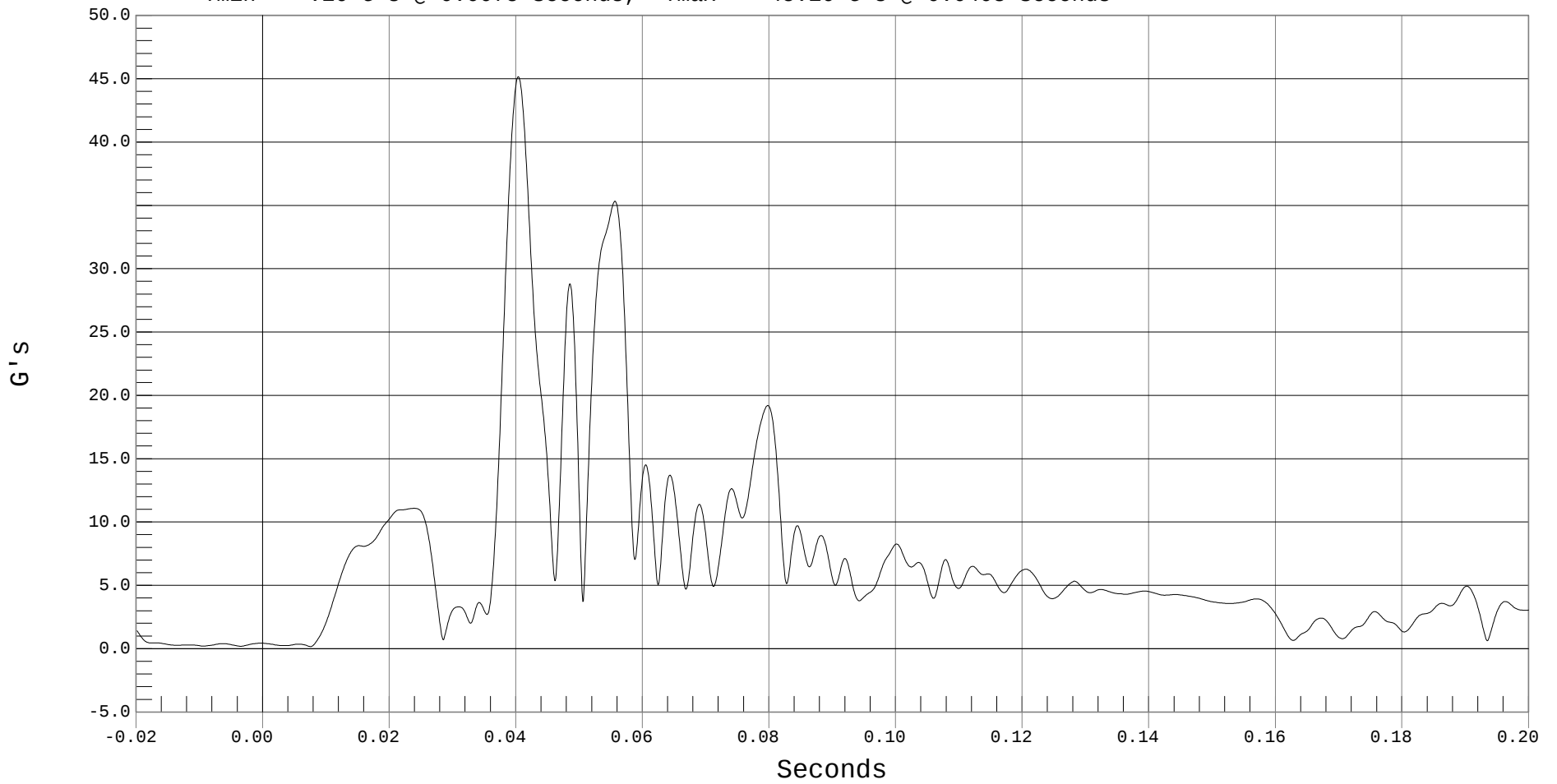
VEHICLE CG RESULTANT ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 VEHICLE CG RESULTANT ACCELERATION, B01071AV.A44

Ymin = .16 G's @ 0.0075 Seconds, Ymax = 45.16 G's @ 0.0403 Seconds





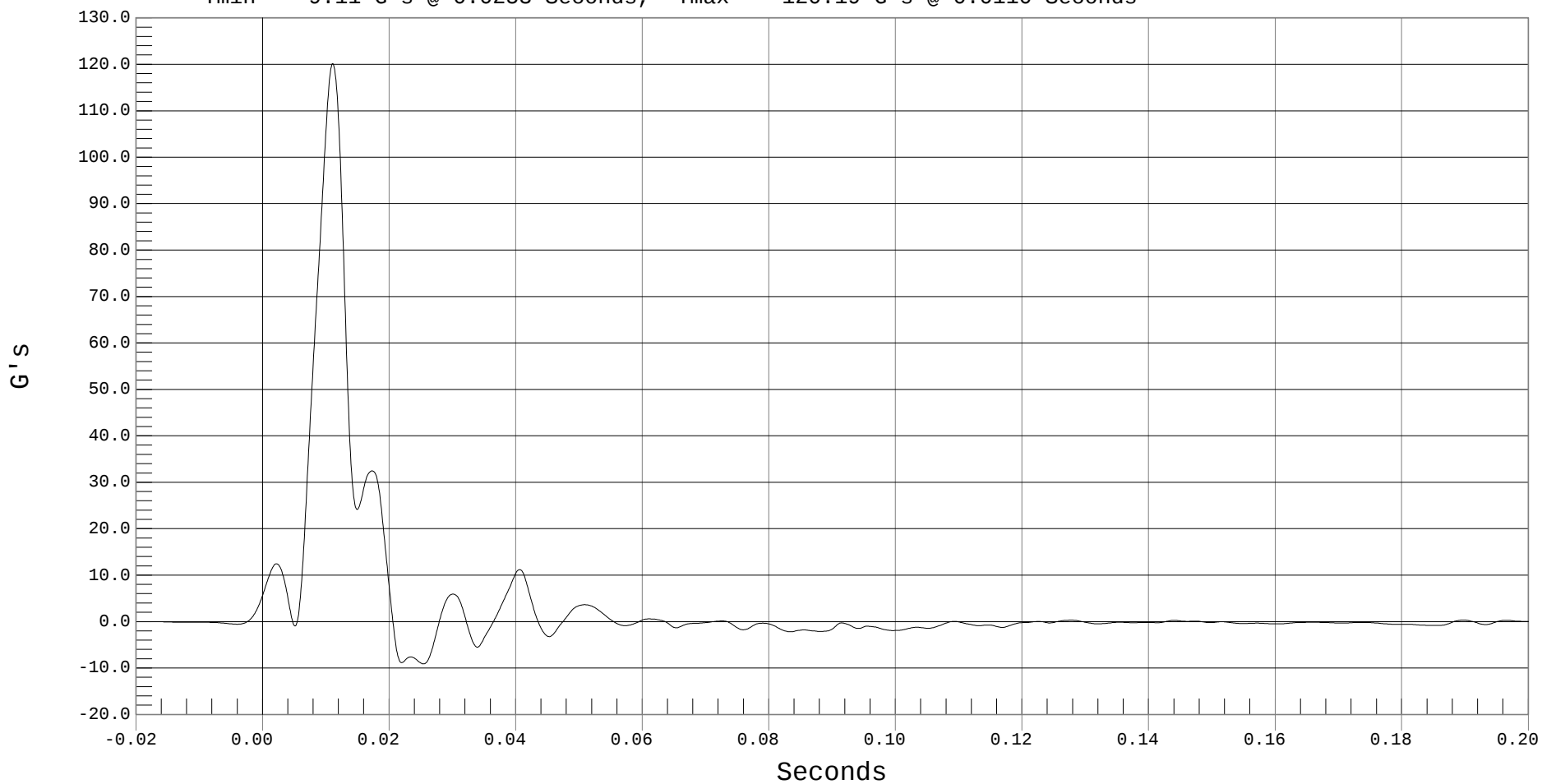
LEFT FRONT DOOR @ MID RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ MID RIB Y, B01071AF.A47

Ymin = -9.11 G's @ 0.0253 Seconds, Ymax = 120.19 G's @ 0.0110 Seconds





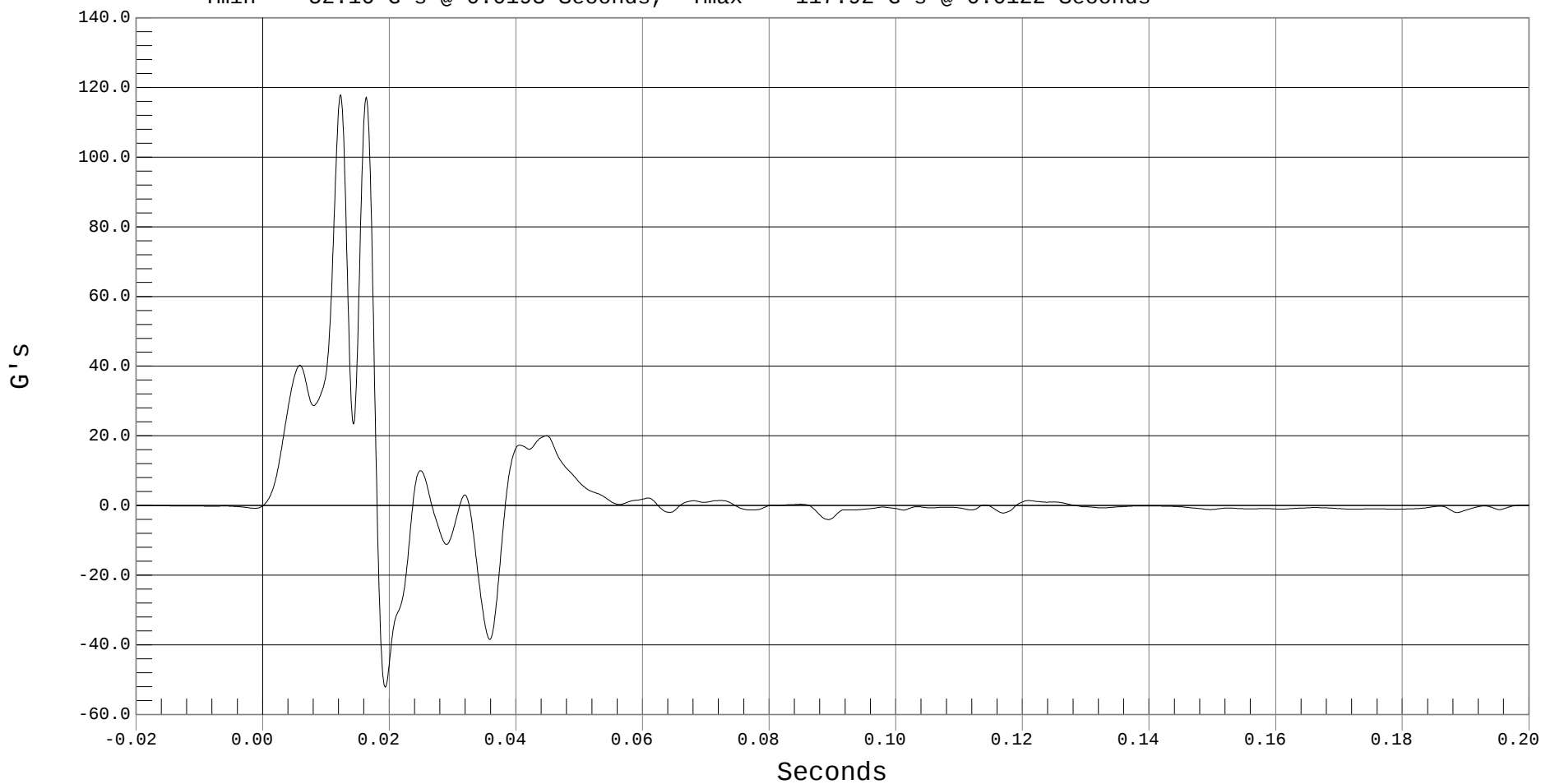
LEFT FRONT DOOR @ PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ PELVIS Y, B01071AF.A48

Ymin = -52.16 G's @ 0.0193 Seconds, Ymax = 117.92 G's @ 0.0122 Seconds





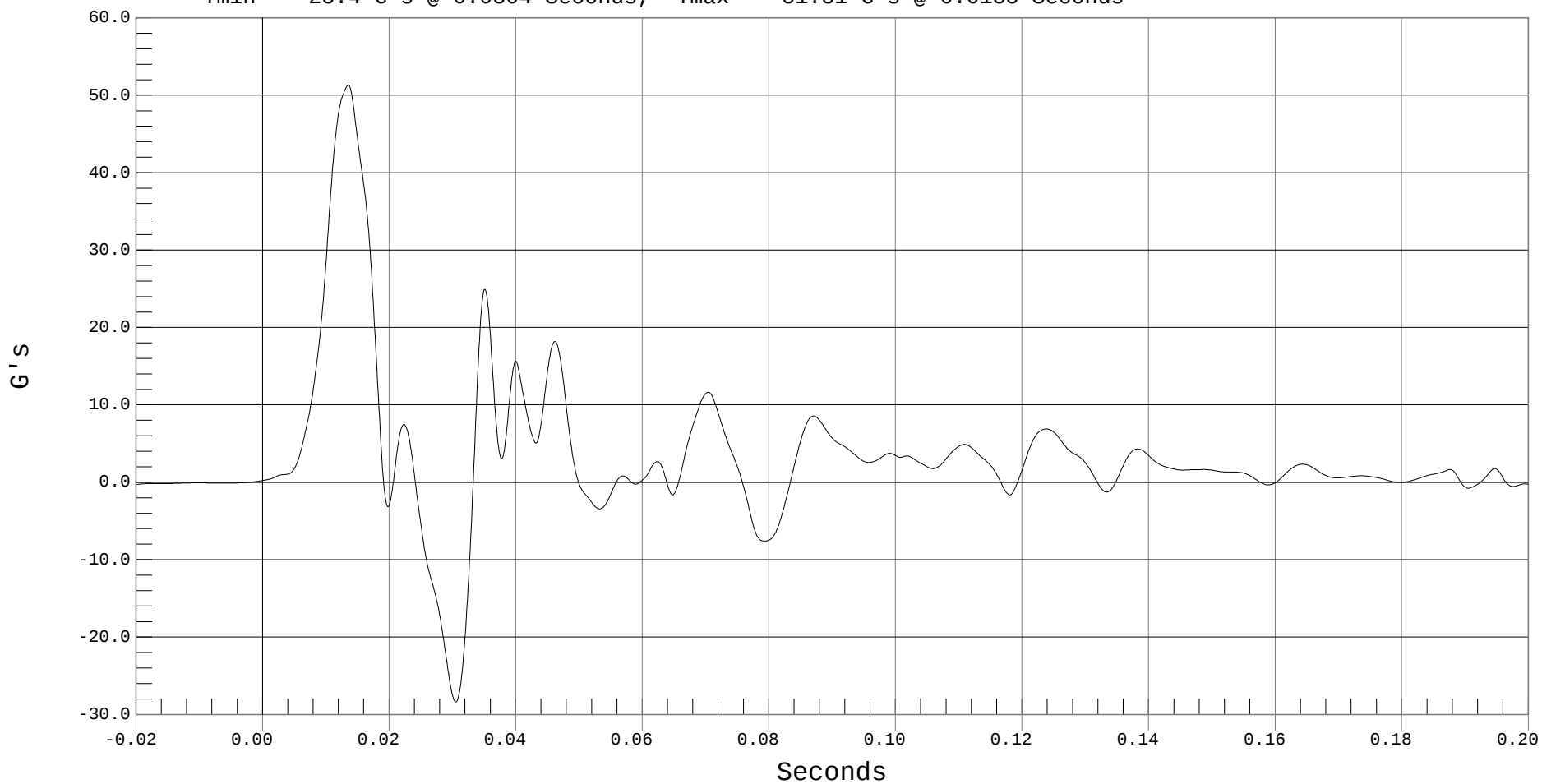
LEFT FRONT DOOR @ KNEE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ KNEE Y, B01071AF.A49

Ymin = -28.4 G's @ 0.0304 Seconds, Ymax = 51.31 G's @ 0.0135 Seconds





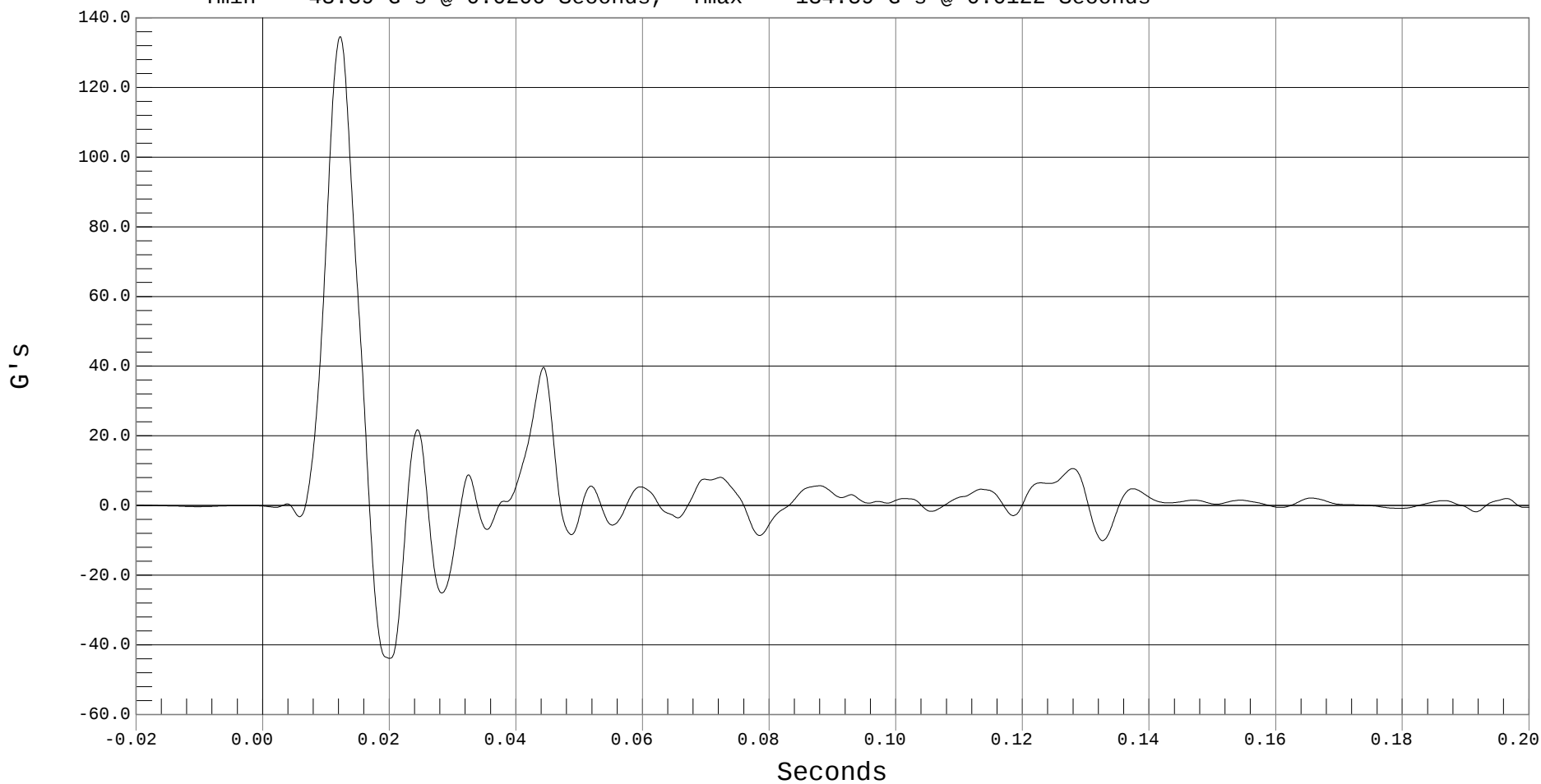
LEFT FRONT DOOR @ ARM Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT FRONT DOOR @ END OF ARM Y, B01071AF.A50

Ymin = -43.89 G's @ 0.0200 Seconds, Ymax = 134.59 G's @ 0.0122 Seconds





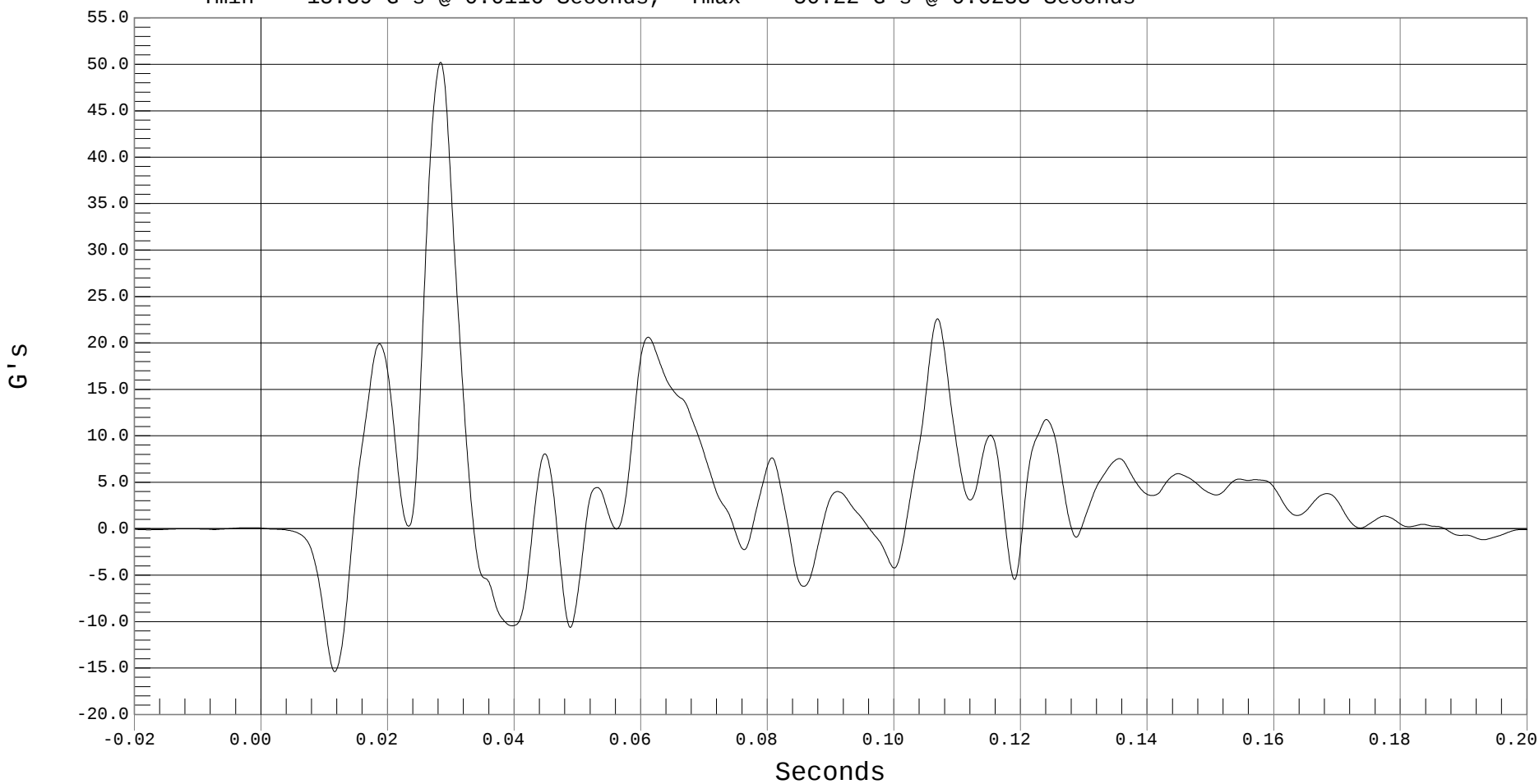
LEFT REAR DOOR @ MID RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ MID RIB Y, B01071AF.A51

Ymin = -15.39 G's @ 0.0116 Seconds, Ymax = 50.22 G's @ 0.0283 Seconds





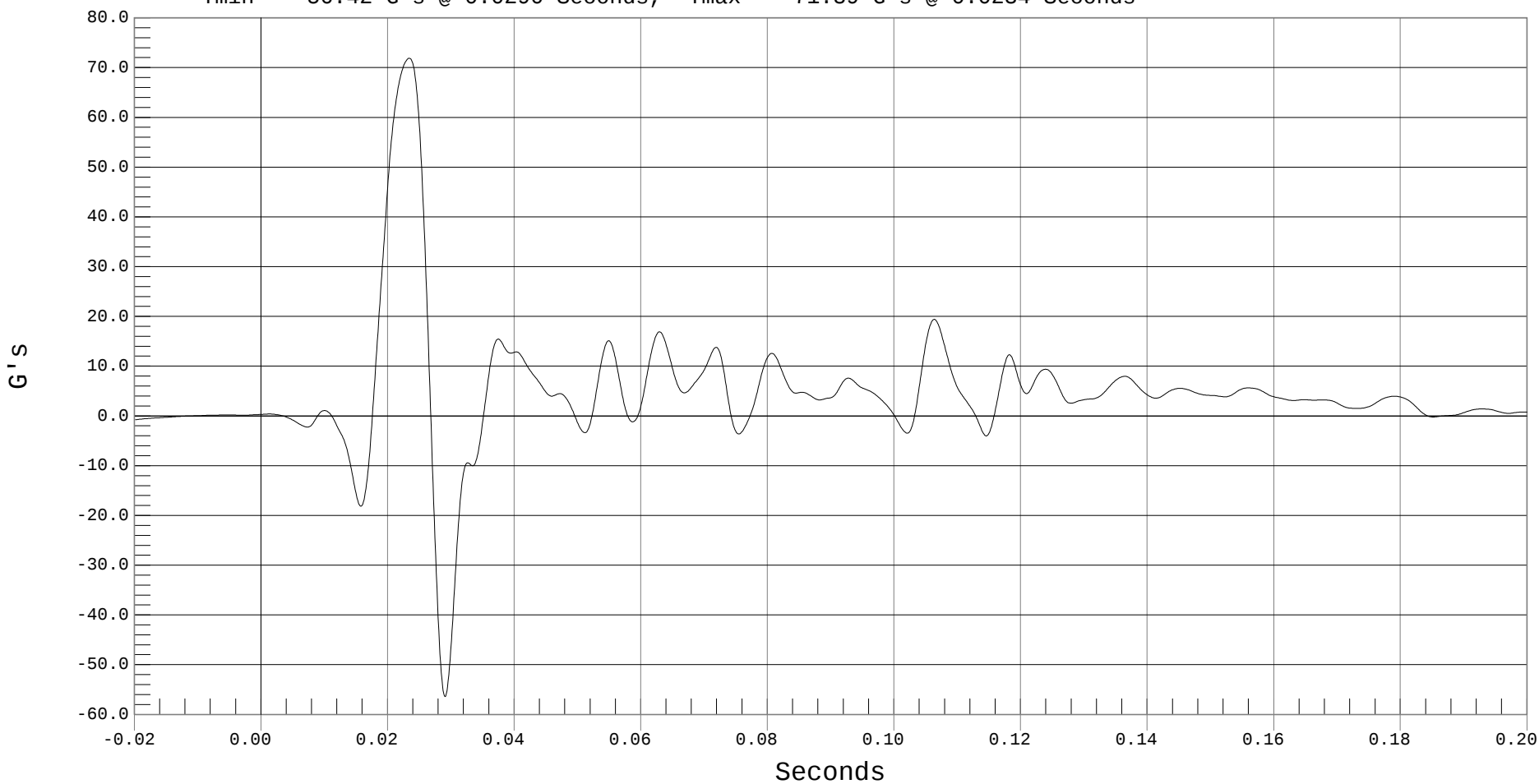
LEFT REAR DOOR @ PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ PELVIS Y, B01071AF.A52

Ymin = -56.42 G's @ 0.0290 Seconds, Ymax = 71.89 G's @ 0.0234 Seconds





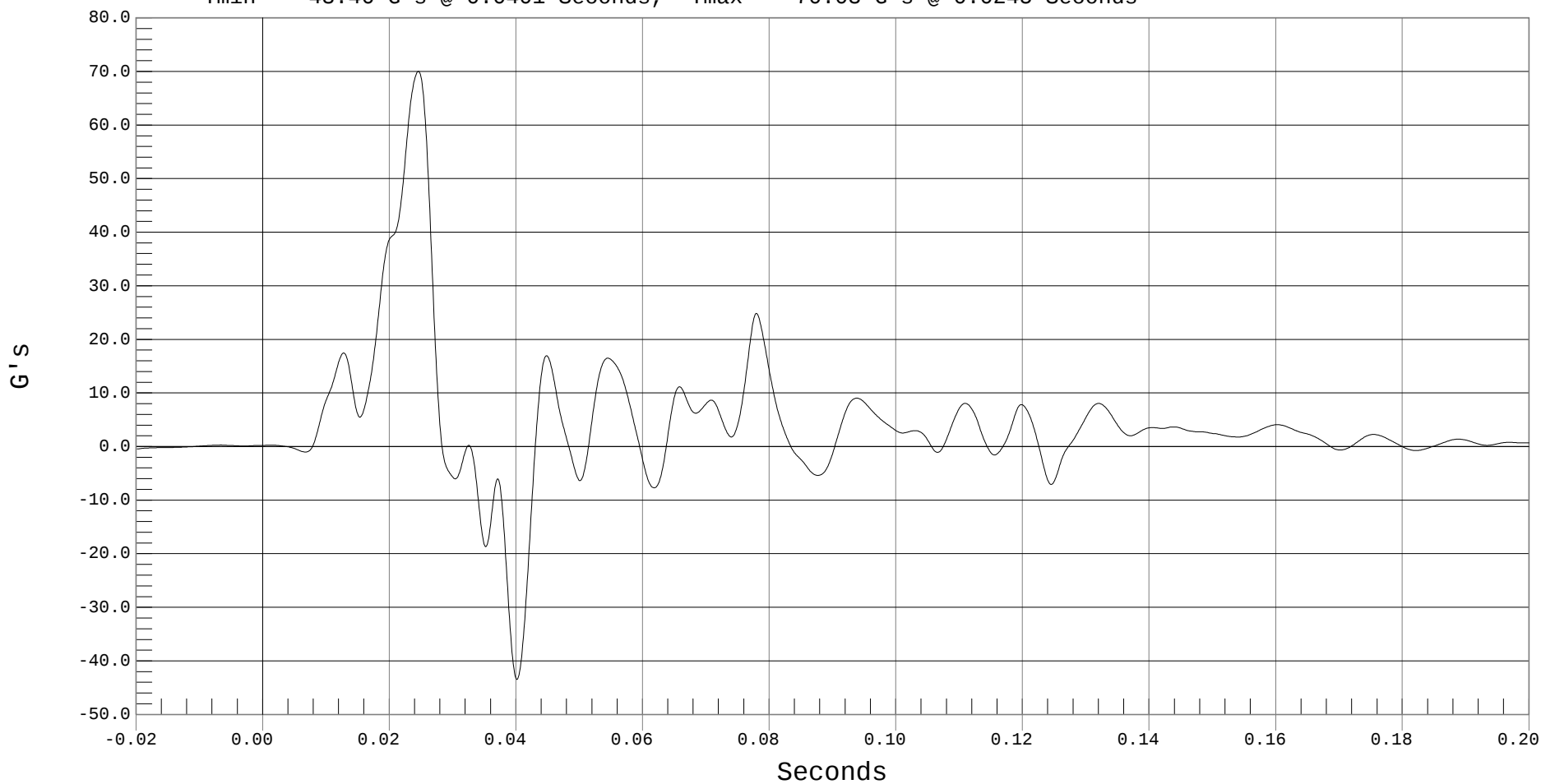
LEFT REAR DOOR @ KNEE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ KNEE Y, B01071AF.A53

Ymin = -43.46 G's @ 0.0401 Seconds, Ymax = 70.03 G's @ 0.0245 Seconds





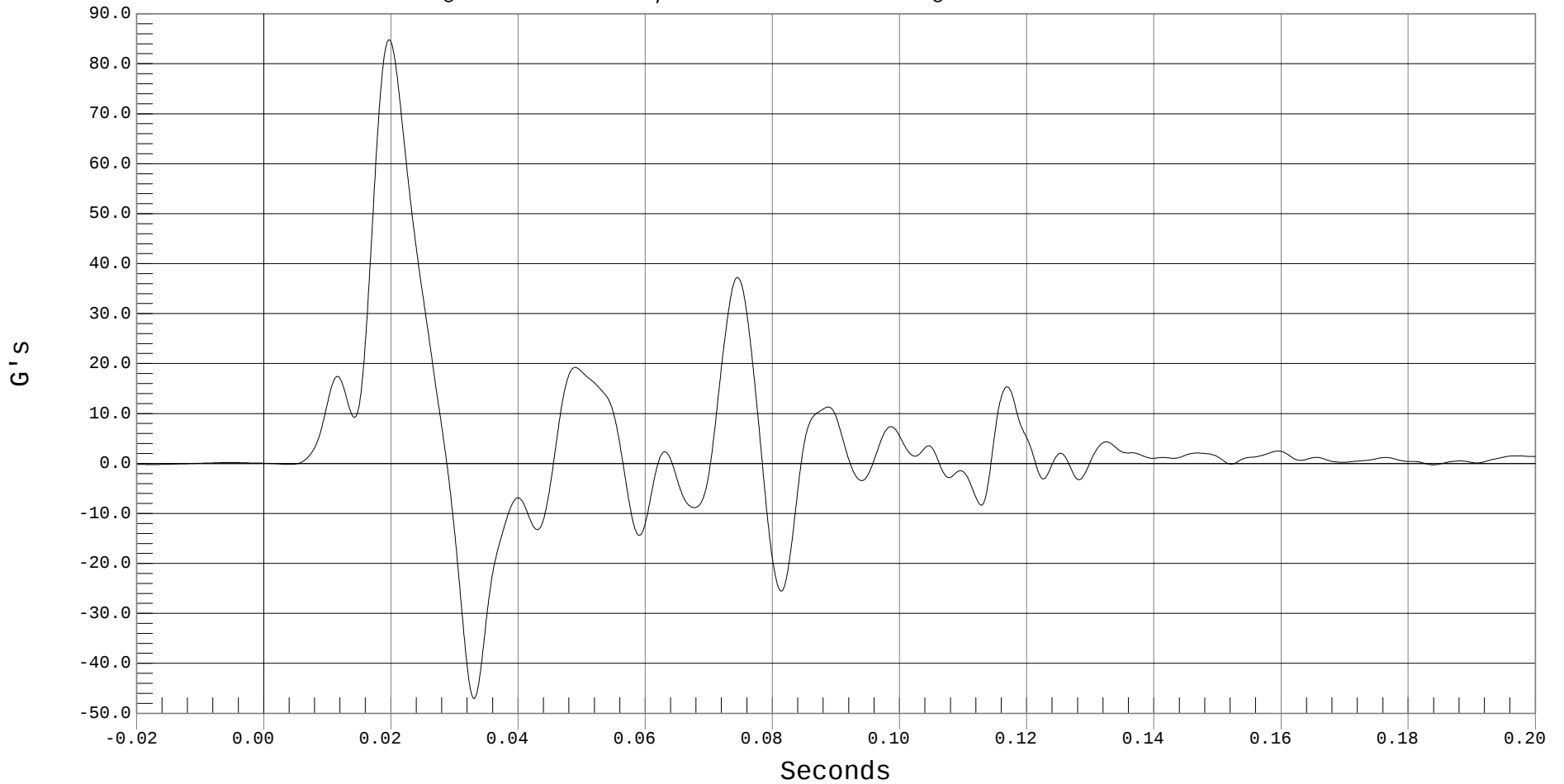
LEFT REAR DOOR @ CHILD SEAT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LEFT REAR DOOR @ CHILD SEAT Y, B01071AF.A54

Ymin = -47.05 G's @ 0.0330 Seconds, Ymax = 84.82 G's @ 0.0196 Seconds





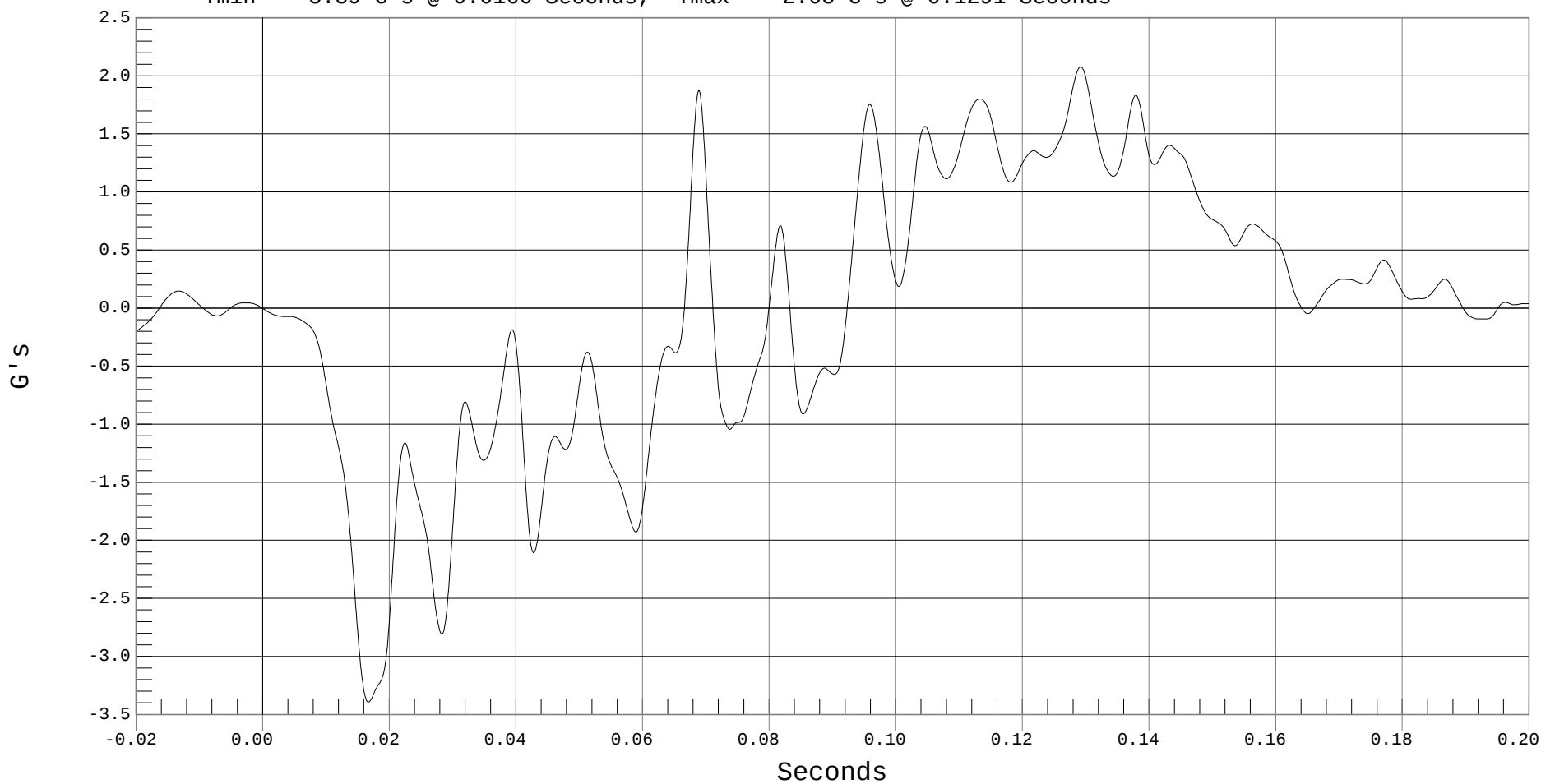
LOWER CENTER RADIATOR SUPPORT X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LOWER CENTER RADIATOR SUPPORT X, B01071AF.A62

Ymin = -3.39 G's @ 0.0166 Seconds, Ymax = 2.08 G's @ 0.1291 Seconds





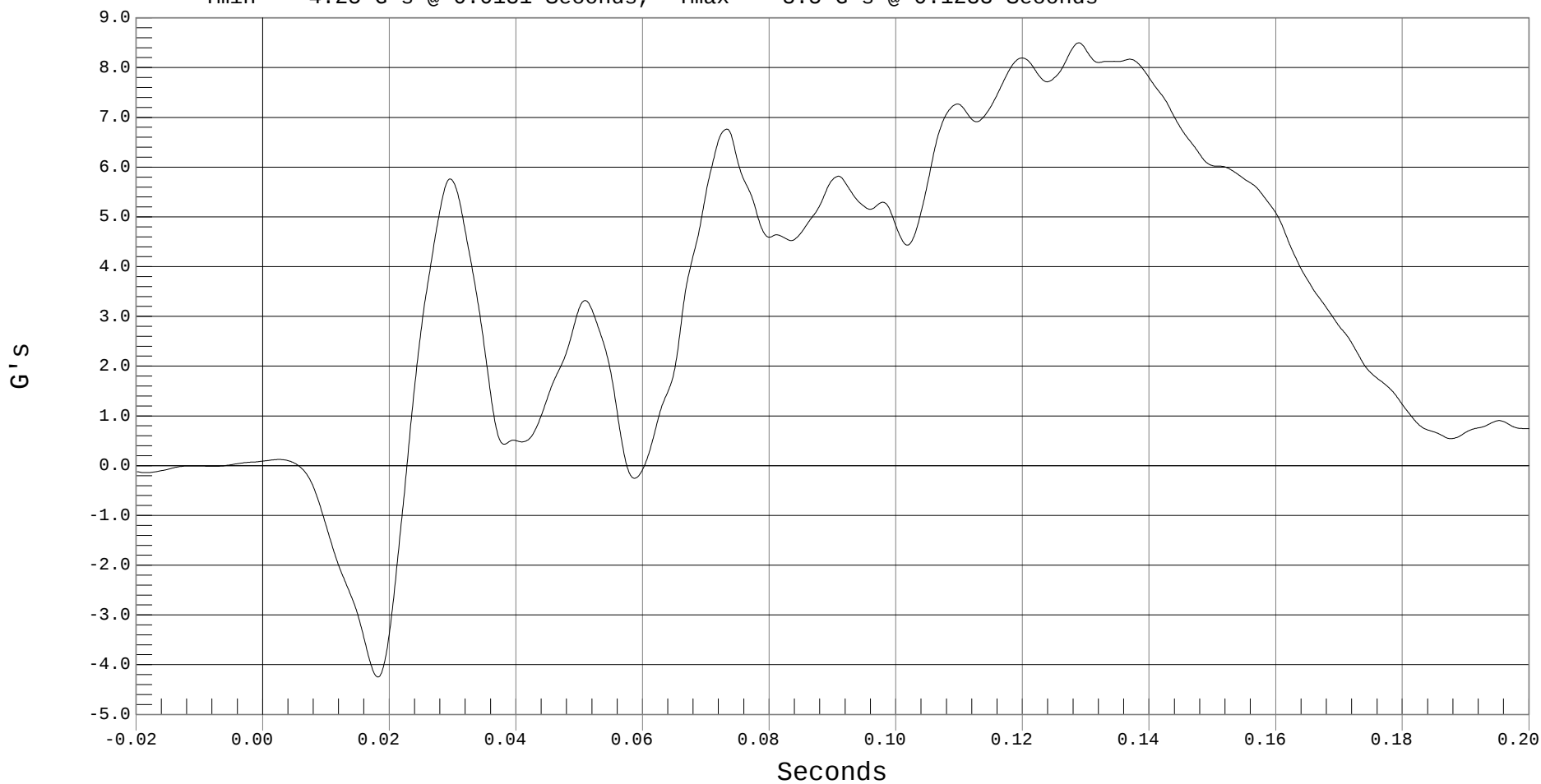
LOWER CENTER RADIATOR SUPPORT Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LOWER CENTER RADIATOR SUPPORT Y, B01071AF.A63

Ymin = -4.25 G's @ 0.0181 Seconds, Ymax = 8.5 G's @ 0.1288 Seconds





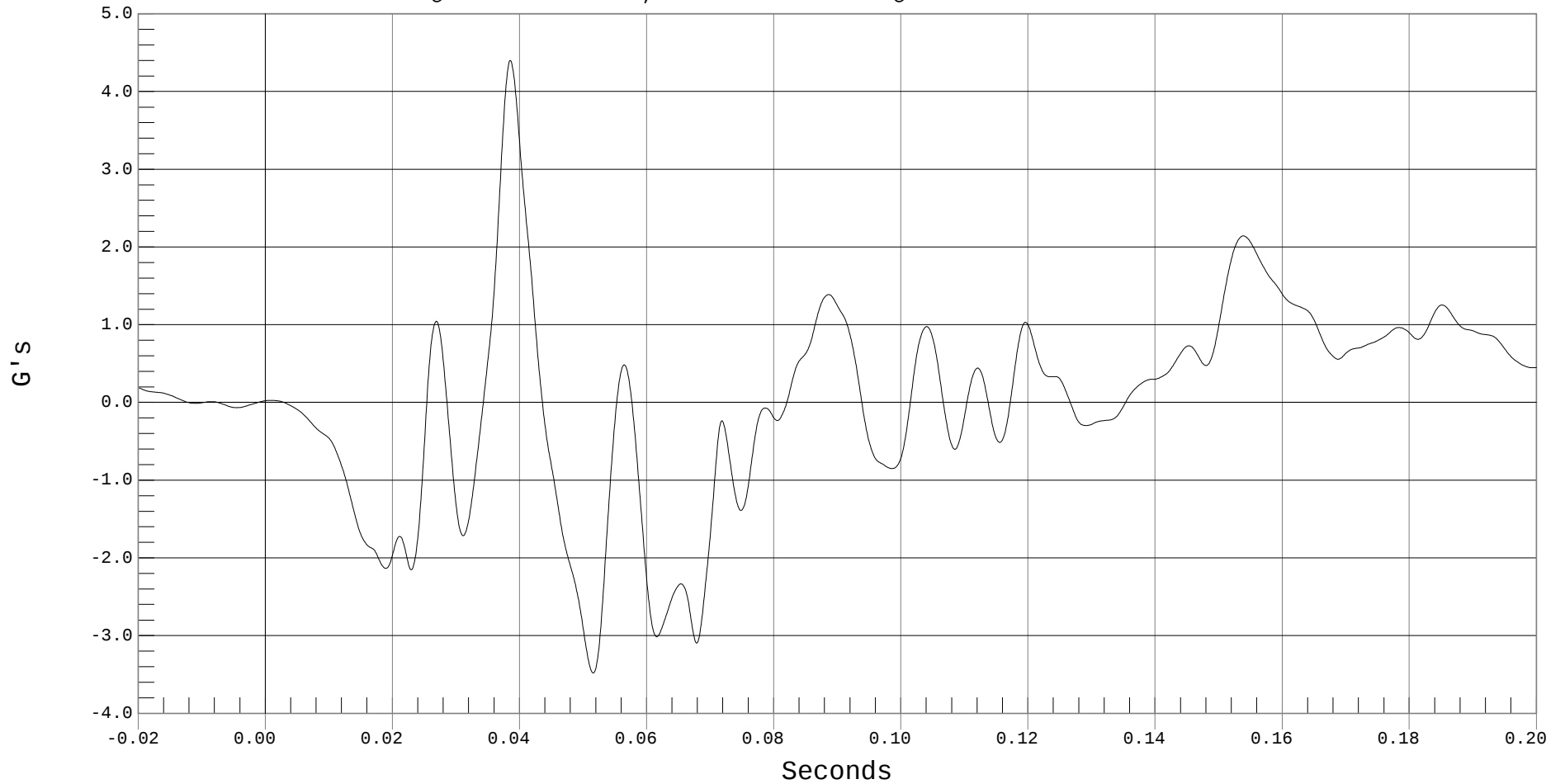
LOWER CENTER RADIATOR SUPPORT Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Filter Class: 60

— 1 LOWER CENTER RADIATOR SUPPORT Z, B01071AF.A64

Ymin = -3.48 G's @ 0.0515 Seconds, Ymax = 4.4 G's @ 0.0384 Seconds





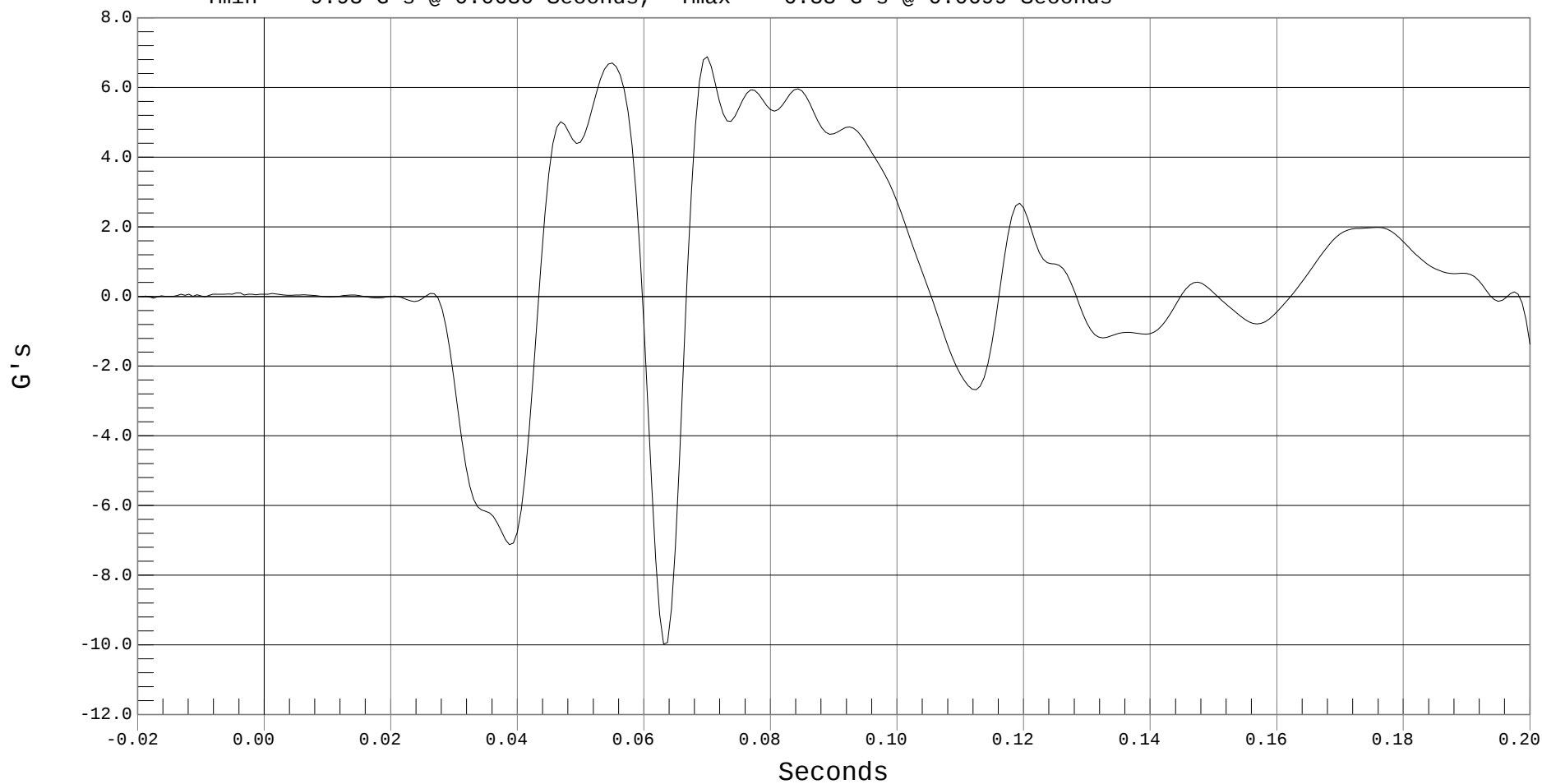
DRIVER UPPER SPINE X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE X, B01071FI.R20

Ymin = -9.98 G's @ 0.0630 Seconds, Ymax = 6.88 G's @ 0.0699 Seconds





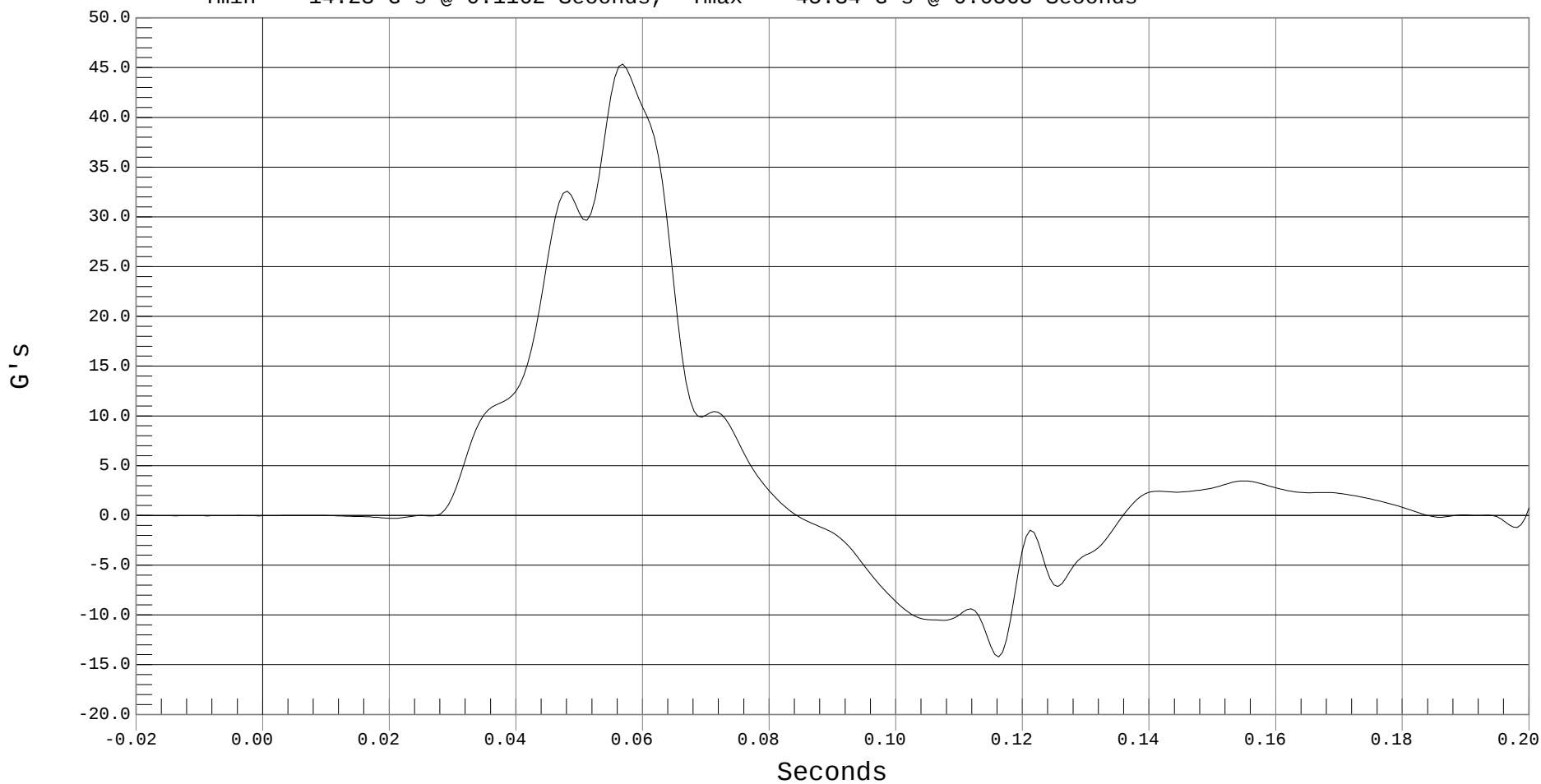
DRIVER UPPER SPINE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE Y, B01071FI.R21

Ymin = -14.23 G's @ 0.1162 Seconds, Ymax = 45.34 G's @ 0.0568 Seconds



B-171



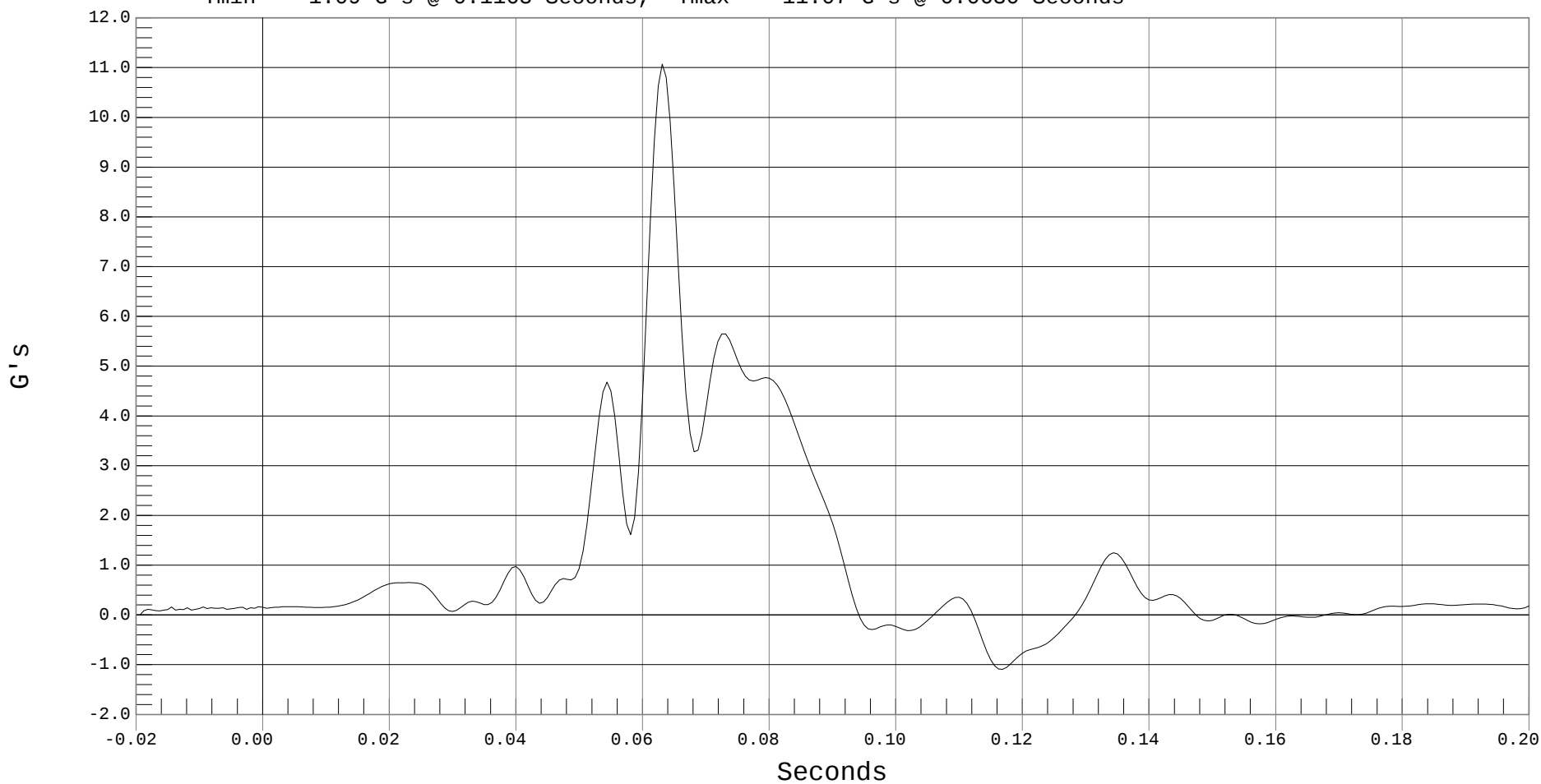
DRIVER UPPER SPINE Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER UPPER SPINE Z, B01071FI.R22

Ymin = -1.09 G's @ 0.1168 Seconds, Ymax = 11.07 G's @ 0.0630 Seconds





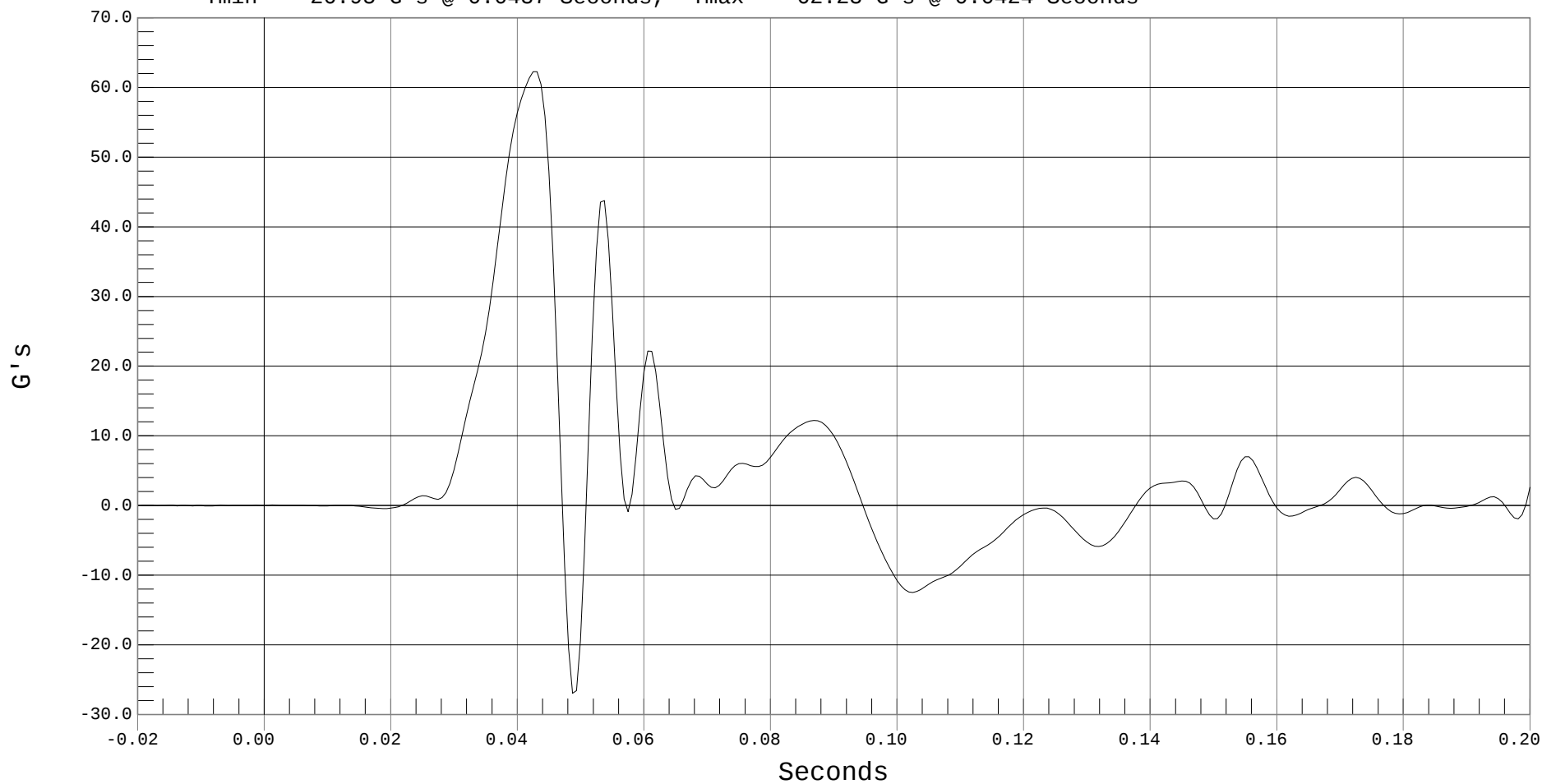
DRIVER UPPER RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER UPPER RIB Y, B01071FI.R23

Ymin = -26.95 G's @ 0.0487 Seconds, Ymax = 62.28 G's @ 0.0424 Seconds





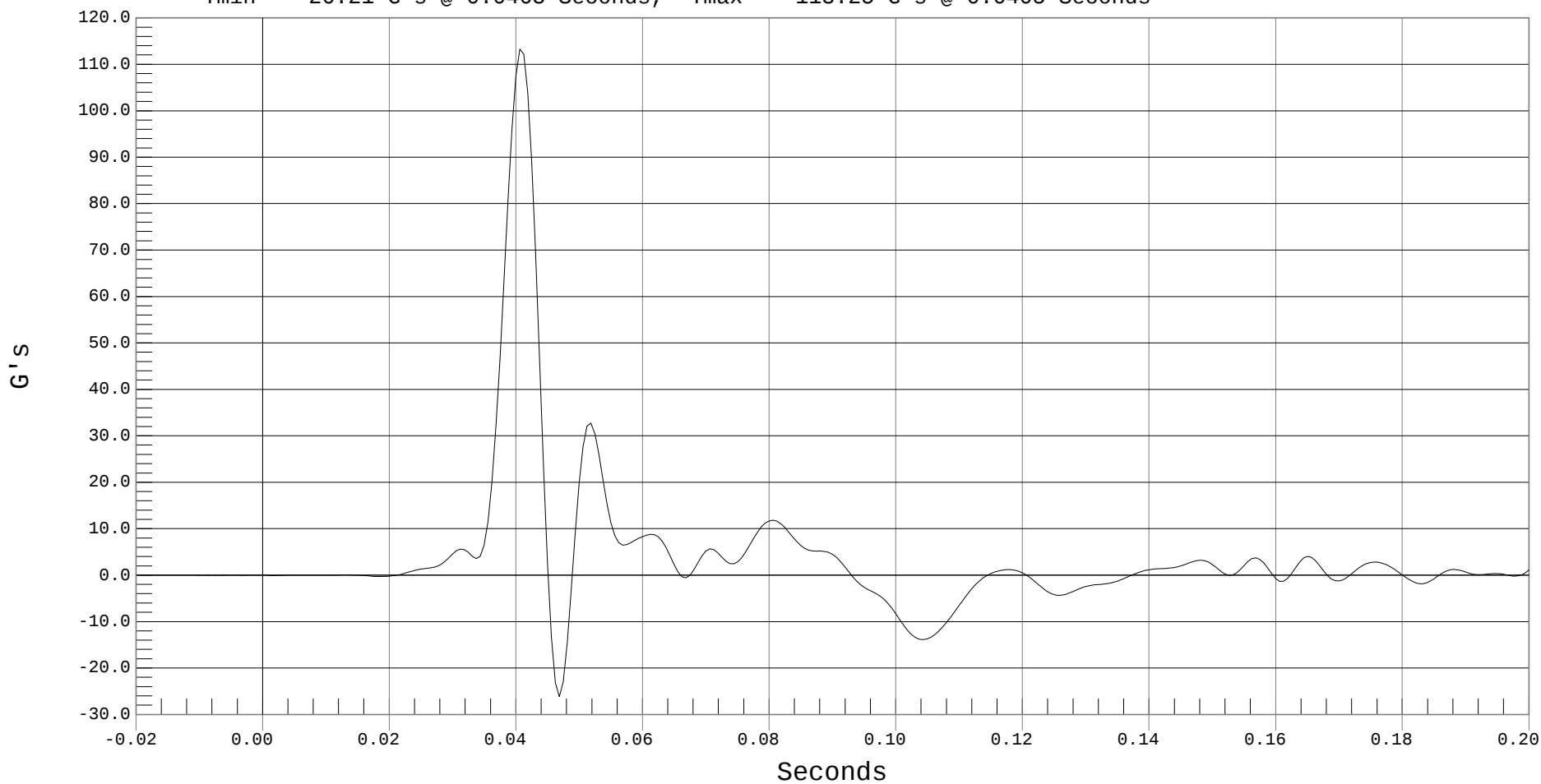
DRIVER MID RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER MID RIB Y, B01071FI.R24

Ymin = -26.21 G's @ 0.0468 Seconds, Ymax = 113.25 G's @ 0.0405 Seconds





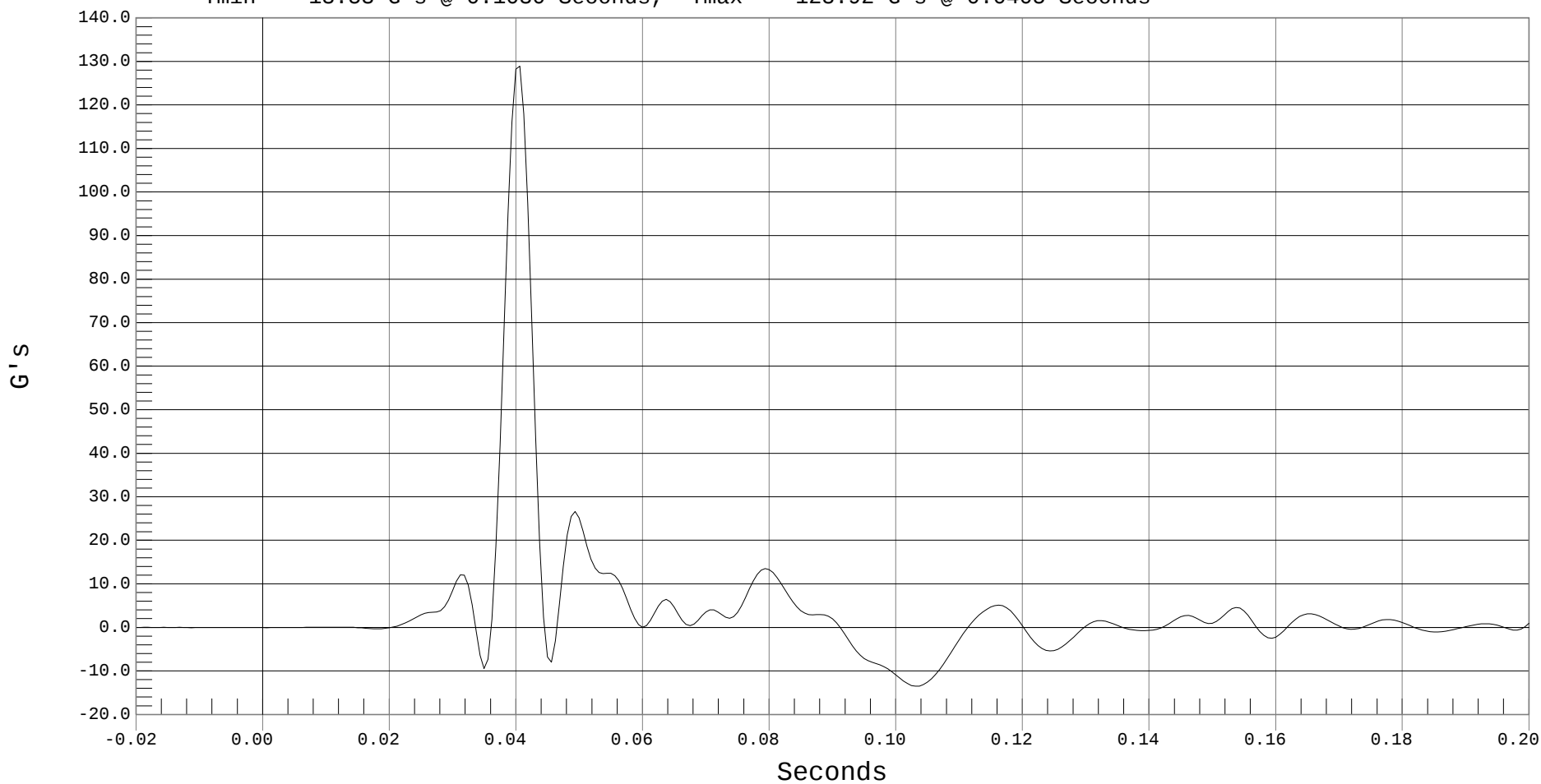
DRIVER LOWER RIB Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER LOWER RIB Y, B01071FI.R25

Ymin = -13.53 G's @ 0.1030 Seconds, Ymax = 128.92 G's @ 0.0405 Seconds





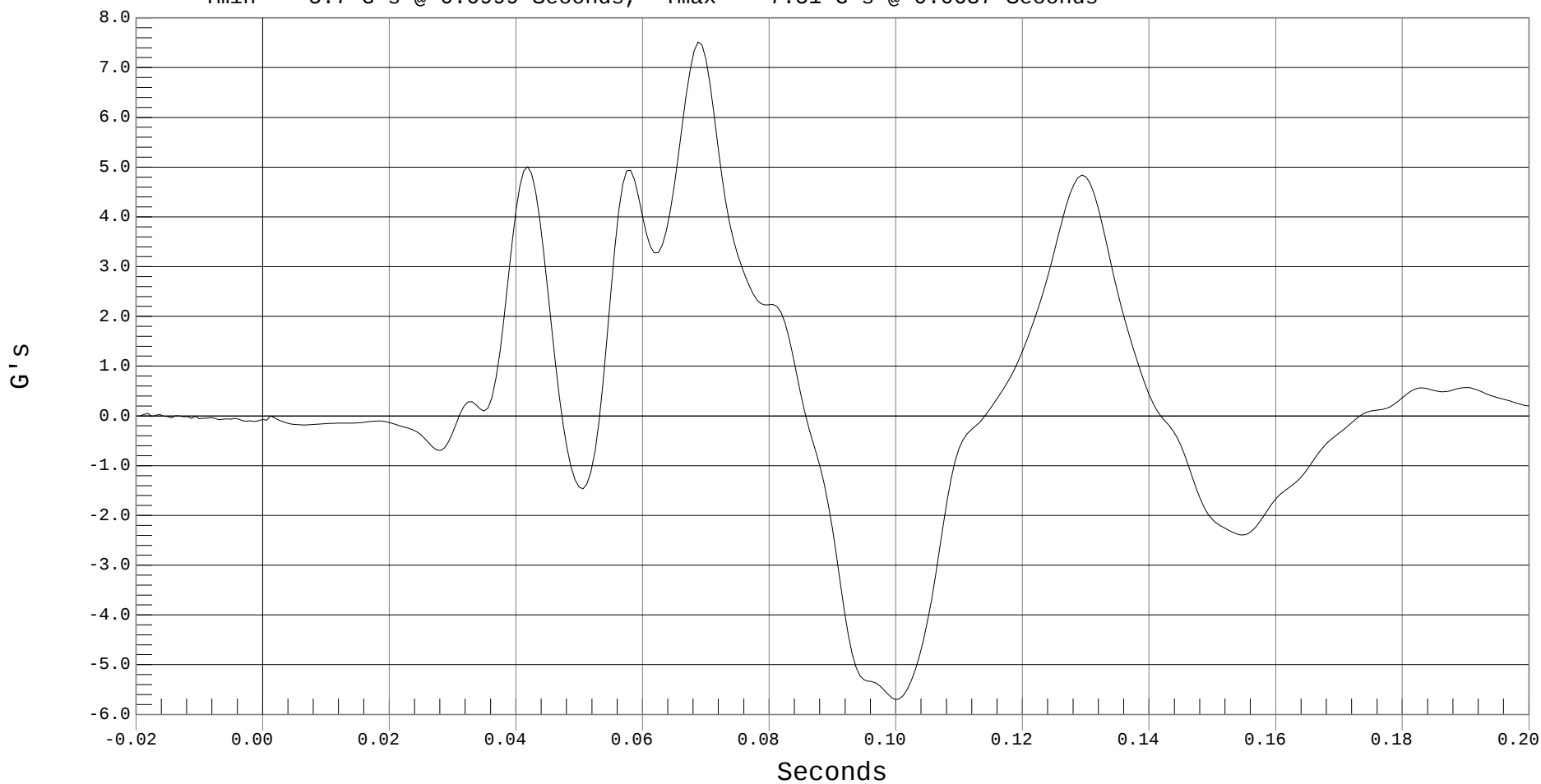
DRIVER LOWER SPINE X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER LOWER SPINE X, B01071FI.R29

Ymin = -5.7 G's @ 0.0999 Seconds, Ymax = 7.51 G's @ 0.0687 Seconds





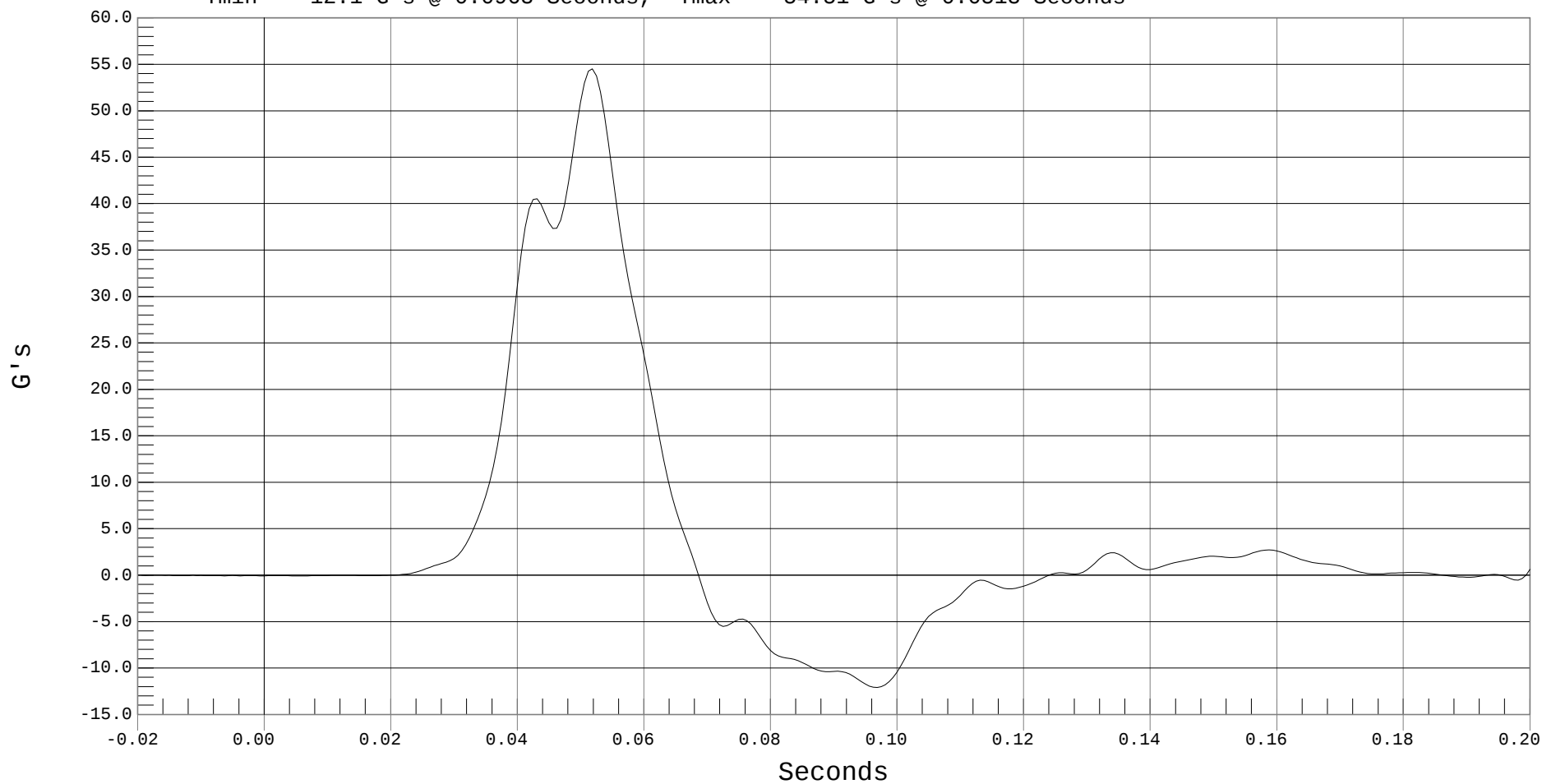
DRIVER LOWER SPINE Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER LOWER SPINE Y, B01071FI.R30

Ymin = -12.1 G's @ 0.0968 Seconds, Ymax = 54.51 G's @ 0.0518 Seconds





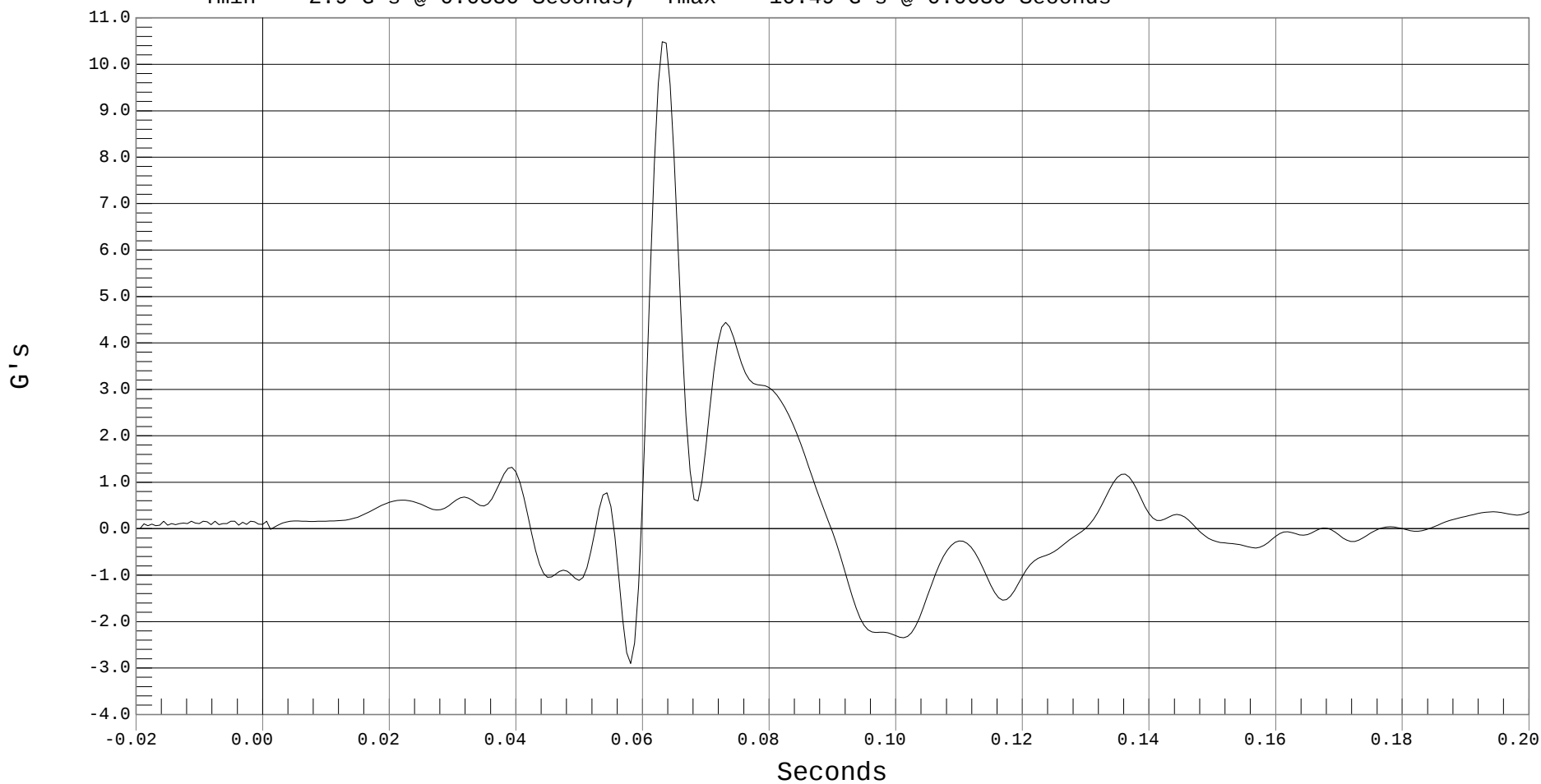
DRIVER LOWER SPINE Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER LOWER SPINE Z, B01071FI.R31

Ymin = -2.9 G's @ 0.0580 Seconds, Ymax = 10.49 G's @ 0.0630 Seconds





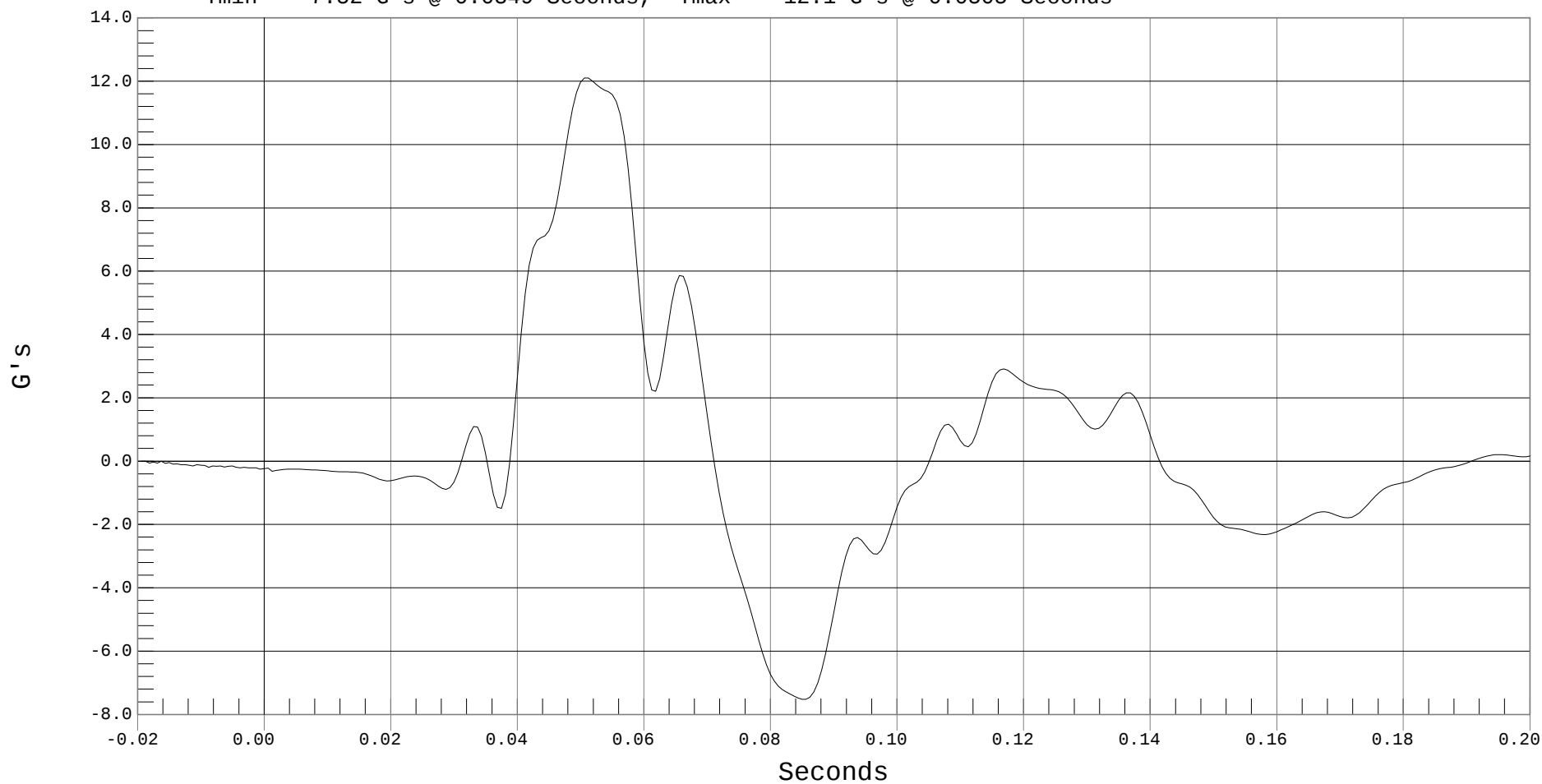
DRIVER PELVIS X ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER PELVIS X, B01071FI.R45

Ymin = -7.52 G's @ 0.0849 Seconds, Ymax = 12.1 G's @ 0.0505 Seconds





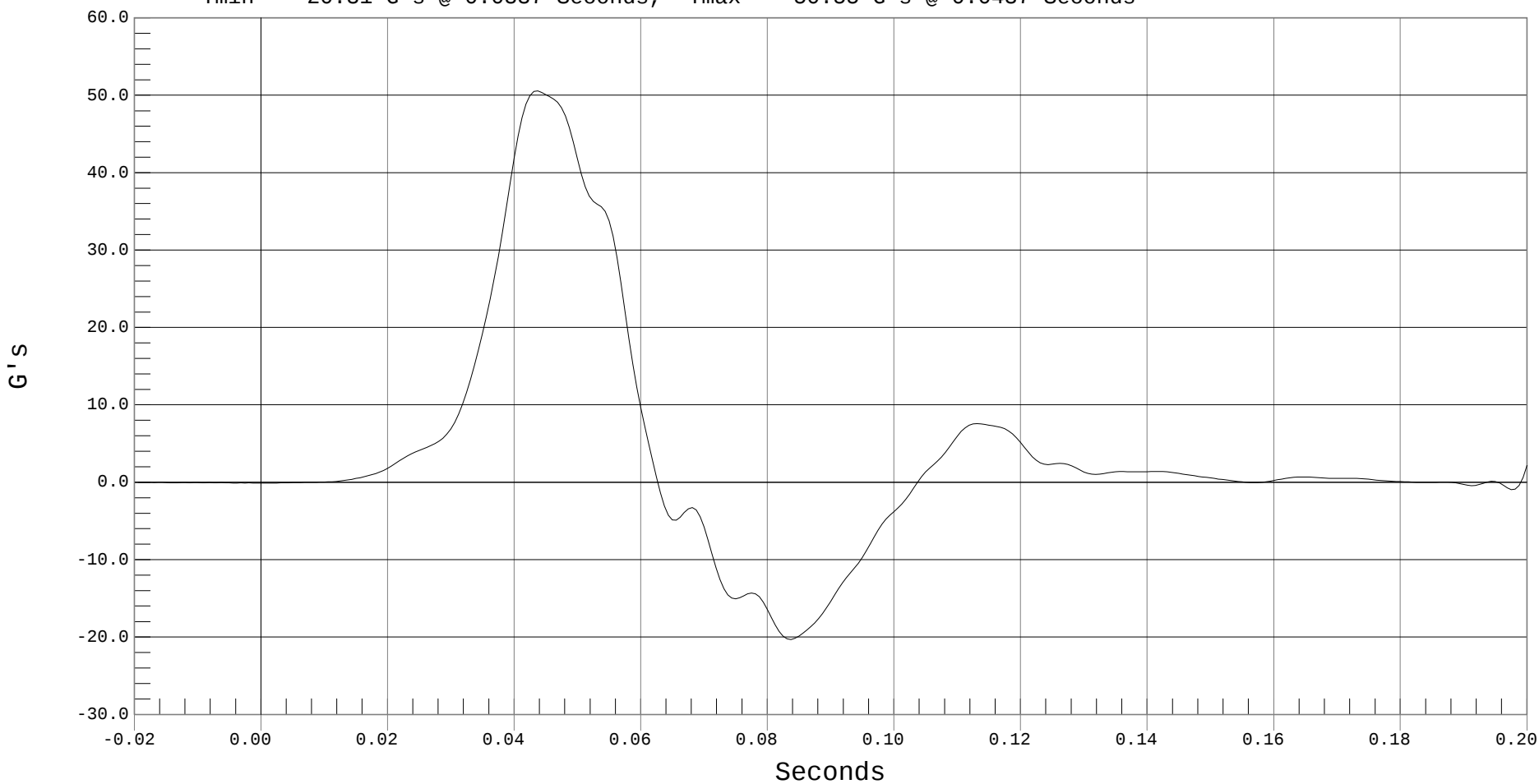
DRIVER PELVIS Y ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER PELVIS Y, B01071FI.R46

Ymin = -20.31 G's @ 0.0837 Seconds, Ymax = 50.55 G's @ 0.0437 Seconds





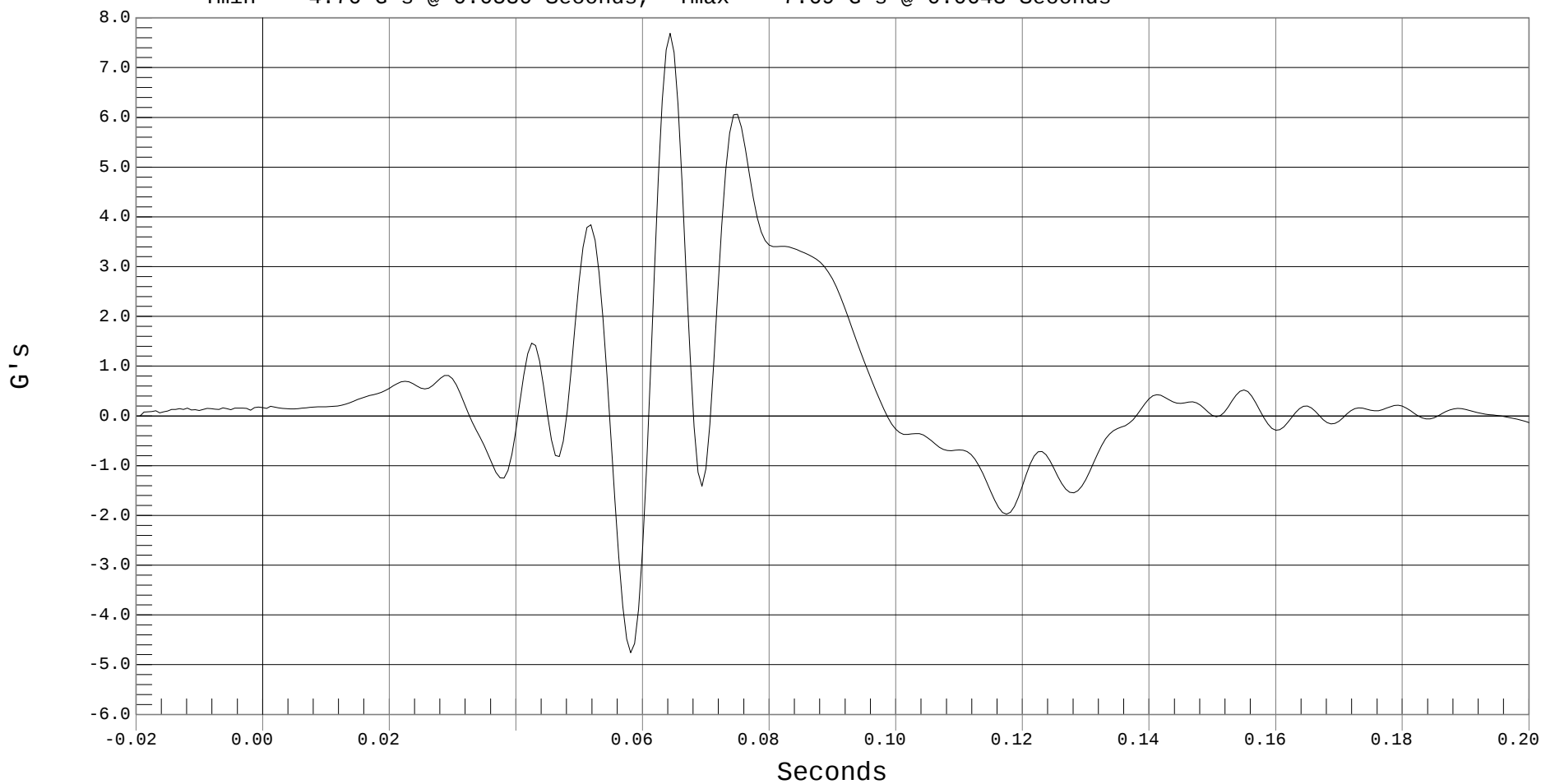
DRIVER PELVIS Z ACCELERATION

Test Desc.: RIGID POLE SIDE IMPACT
Component: 2000 NISSAN MAXIMA 4 DOOR
Other Info:

Test Date: 06-27-01
Speed: 17.6 MPH, 28.3 KPH
Fir Filtered

— 1 DRIVER PELVIS Z, B01071FI.R47

Ymin = -4.76 G's @ 0.0580 Seconds, Ymax = 7.69 G's @ 0.0643 Seconds



APPENDIX C
ES-2 CONFIGURATION AND PERFORMANCE VERIFICATION DATA

CERTIFICATION DATA

Dummy Serial Number: 009

Calibration Test Results Summary

Dummy Serial Number: 009

Pre-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 6/25/01

Dummy Serial Number: 009

Test Number: D01941

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.7
Relative Humidity (%)	10 – 70	46
Peak Resultant Acceleration	100 – 150 g's	136
Time of Max. Res. Acceleration		25.2 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



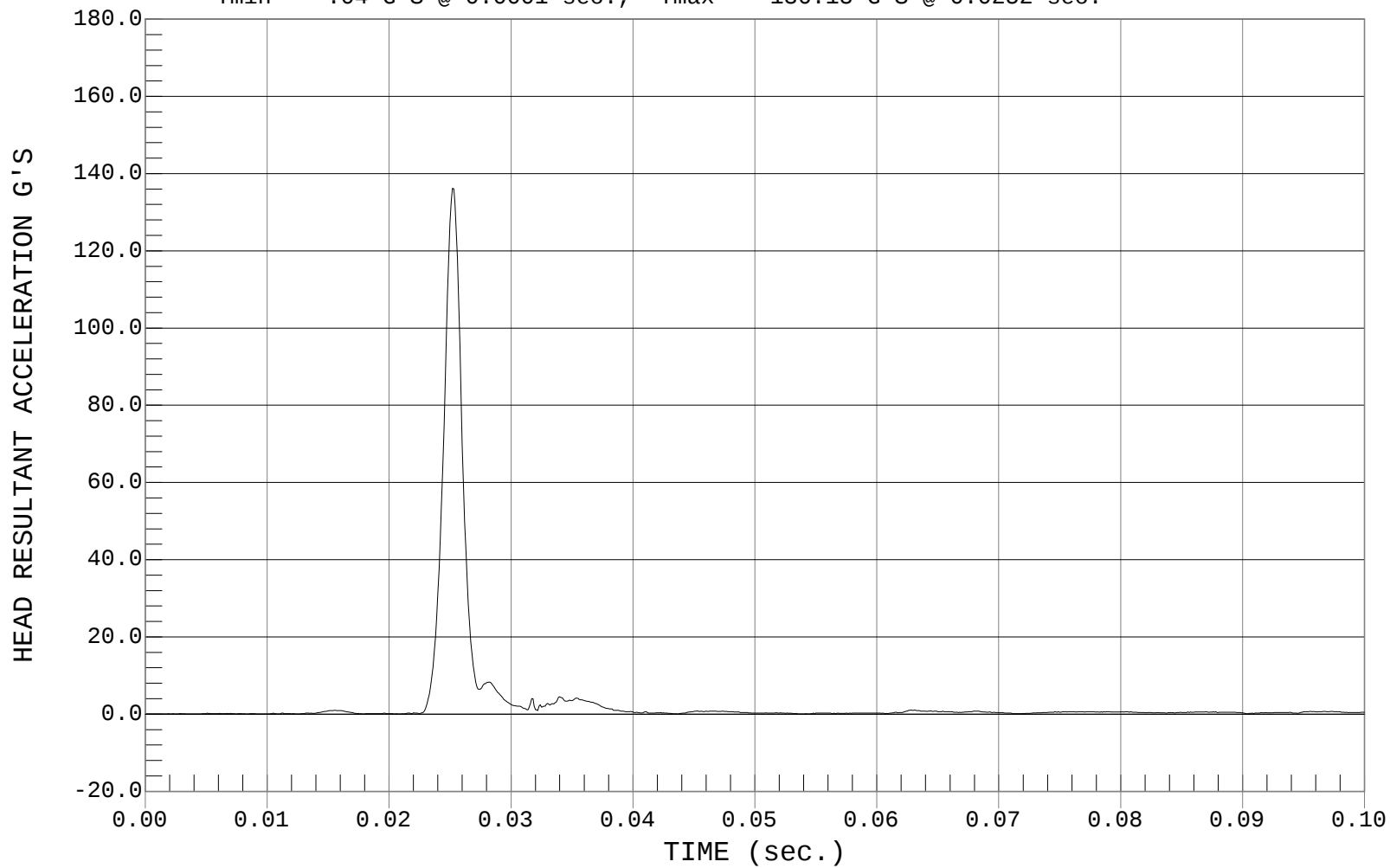
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #009

Test Date: 06-25-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01941AV.A01

Ymin = .04 G'S @ 0.0001 sec., Ymax = 136.18 G'S @ 0.0252 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 6/25/01

Dummy Serial Number: 009

Test Number: D01942

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.6
Relative Humidity (%)		10 – 70	46
Pendulum Speed		3.3 - 3.5	3.3
Pendulum Deceleration	3 msec	ˆ.25 - ˆ.53 m/sec	-.35
	8 msec	ˆ1.59 - ˆ2.04 m/sec	-1.75
	14 msec	ˆ3.20 - ˆ3.85 m/sec	-3.35
Maximum Flexion Angle		49.0 – 59.0 deg	56.2
Time of Max. Flexion Angle		54.0 – 66.0 ms	58.3
Maximum Angle Theta (A)		32.0 – 37.0 deg	34.5
Time of Max. Theta (A)		53.0 – 63.0 ms	58.0
Maximum Angle Theta (B)		29.70 – 32.20 deg	30.4
Time of Max. Theta (B)		54.0 – 64.0 ms	57.4

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



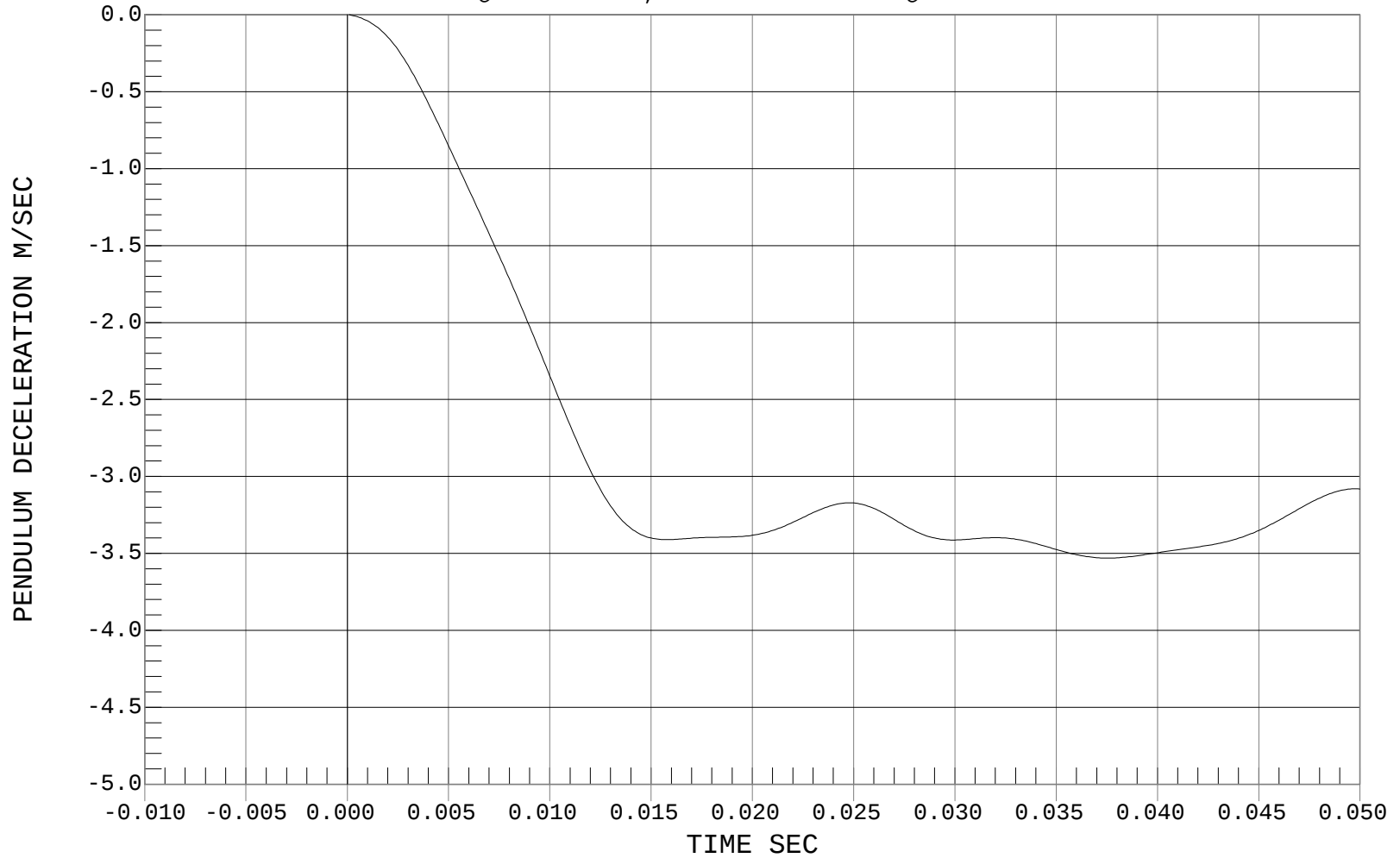
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-25-01
Speed: 10.92 FT/SEC, 3.33 M/SEC

— 1 PENDULUM DECELERATION, D01942AI.V04

Ymin = -4.52 M/SEC @ 0.1906 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





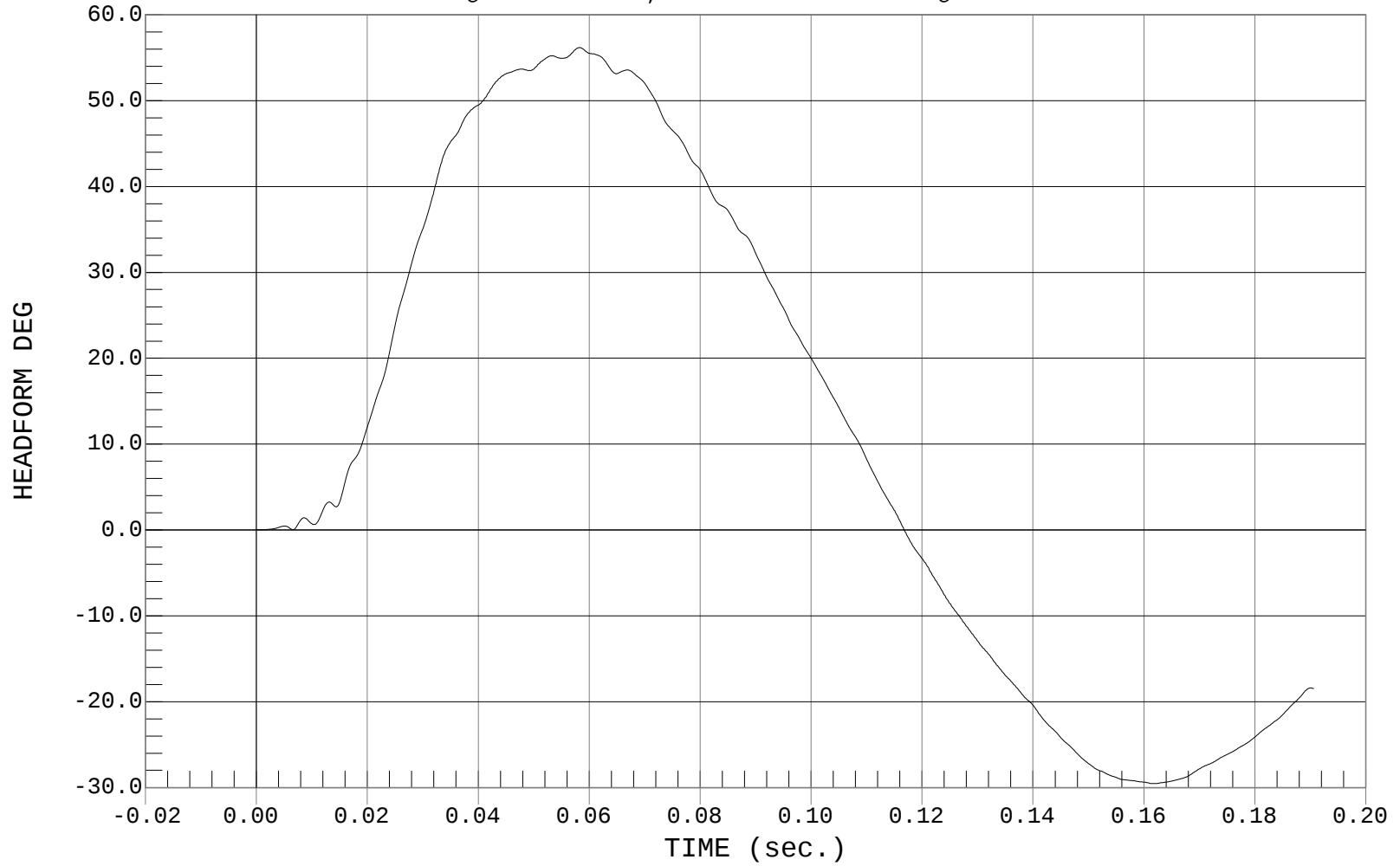
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-25-01
Speed: 10.92 FT/SEC, 3.33 M/SEC

— 1 HEADFORM, D01942DT.D08

Ymin = -29.54 DEG @ 0.1616 sec., Ymax = 56.19 DEG @ 0.0583 sec.





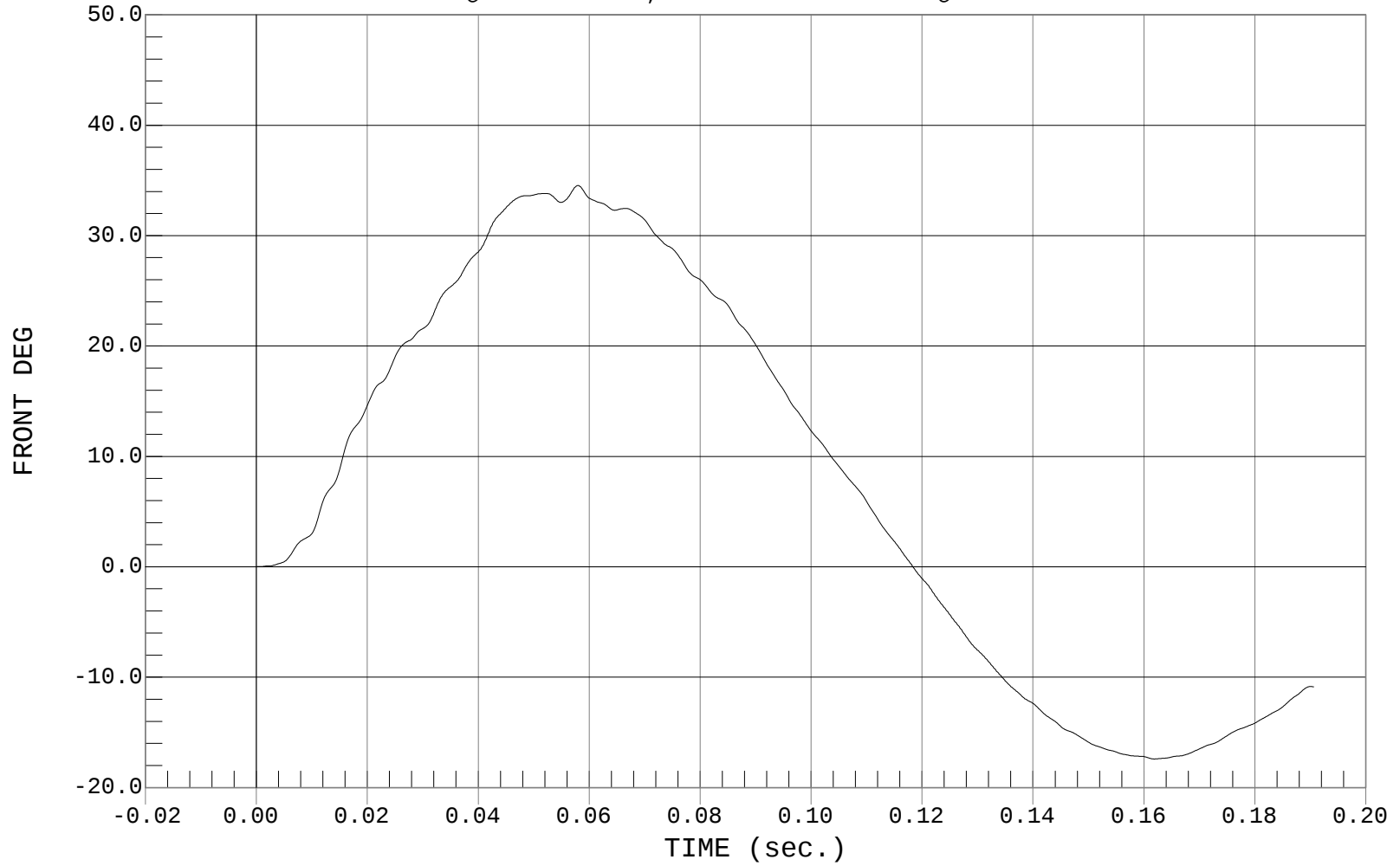
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-25-01
Speed: 10.92 FT/SEC, 3.33 M/SEC

— 1 FRONT, D01942DT.D05

Ymin = -17.41 DEG @ 0.1619 sec., Ymax = 34.54 DEG @ 0.0580 sec.





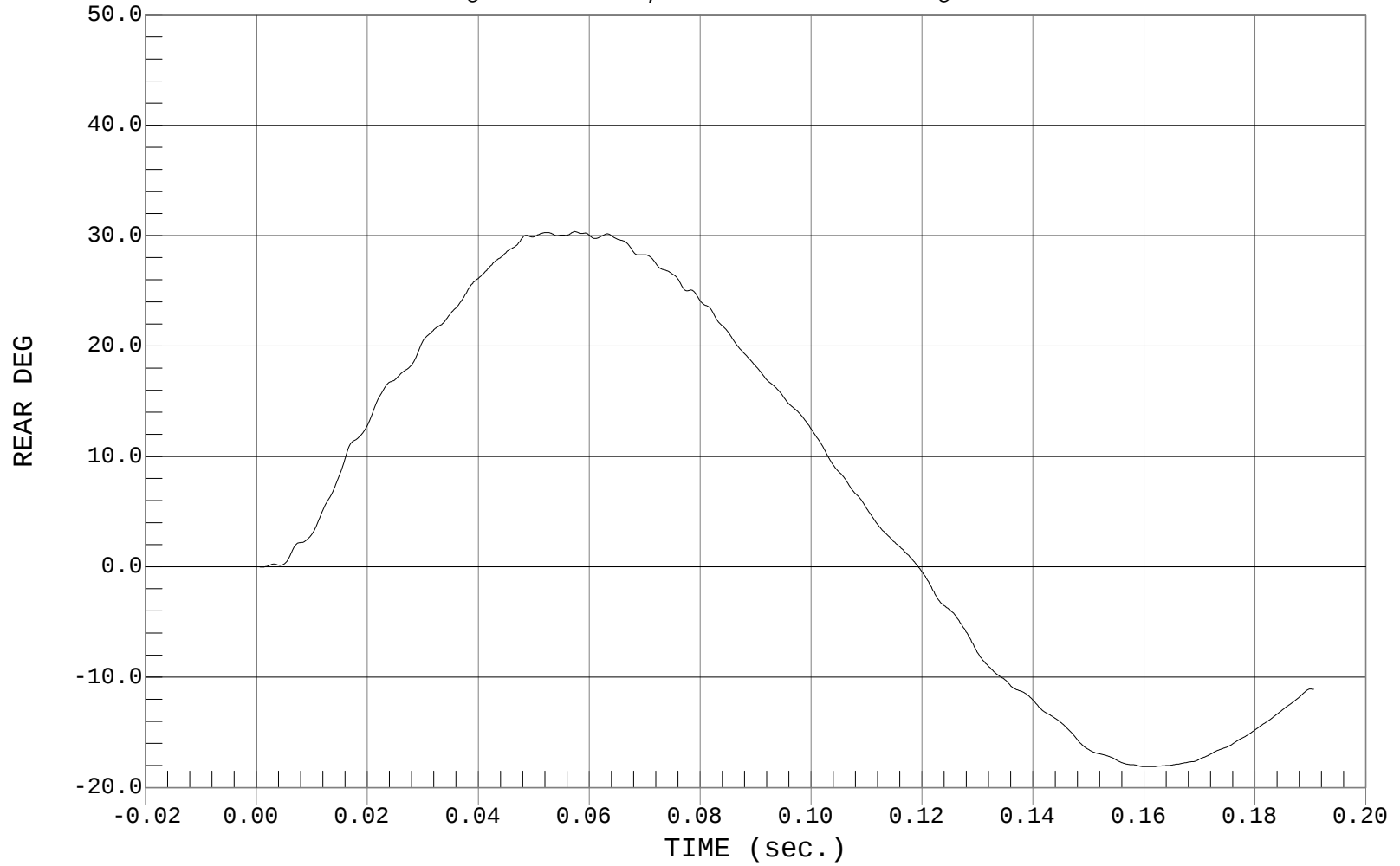
THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-25-01
Speed: 10.92 FT/SEC, 3.33 M/SEC

— 1 REAR, D01942DT.D06

Ymin = -18.11 DEG @ 0.1614 sec., Ymax = 30.37 DEG @ 0.0574 sec.



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 6/26/01

Dummy Serial Number: 009

Test Number: D01943

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.0
Relative Humidity (%)	10 – 70	45
Pendulum Speed	4.2 – 4.4 m/s	4.2
Max. Resultant Acceleration	7.5 – 10.5 g's	9.0
Time of Max. Pendulum Acceleration		25.9 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



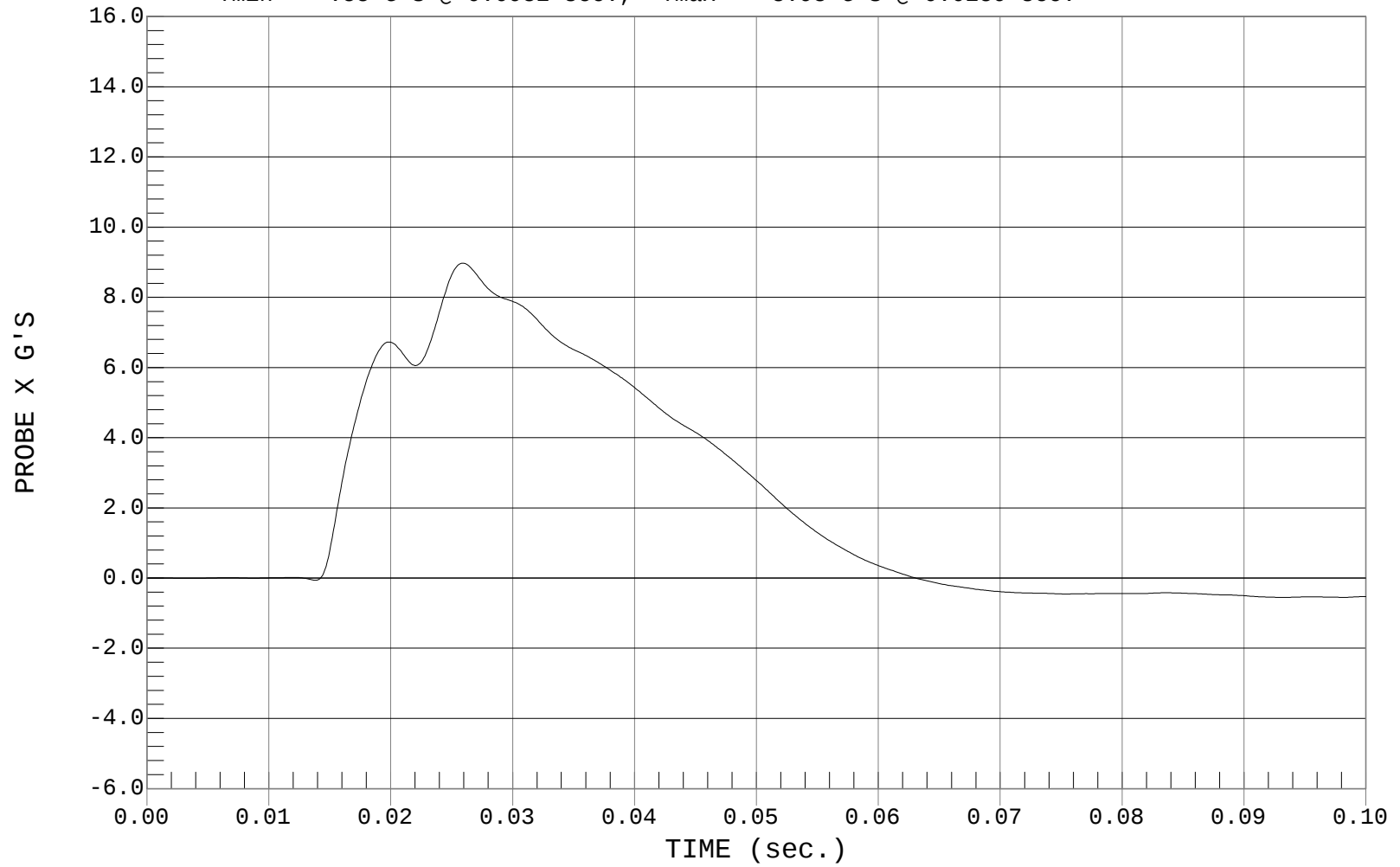
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.82 FT/SEC, 4.21 M/SEC

— 1 PROBE X, D01943AF.A01

Ymin = -.55 G'S @ 0.0982 sec., Ymax = 8.98 G'S @ 0.0259 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
EUROSID 2 DUMMY

Date: 6/26/01
Dummy Serial Number: 009
Test Number: D01944/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	45
Displacement at 2 m/s	23.5 – 27.5 mm	24.3
Displacement at 3 m/s	36.0 – 40.0 mm	38.3
Displacement at 4 m/s	46.0 – 51.0 mm	50.7

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	45
Displacement at 2 m/s	23.5 – 27.5 mm	25.2
Displacement at 3 m/s	36.0 – 40.0 mm	38.7
Displacement at 4 m/s	46.0 – 51.0 mm	50.3

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	45
Displacement at 2 m/s	23.5 – 27.5 mm	24.4
Displacement at 3 m/s	36.0 – 40.0 mm	38.7
Displacement at 4 m/s	46.0 – 51.0 mm	49.2

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



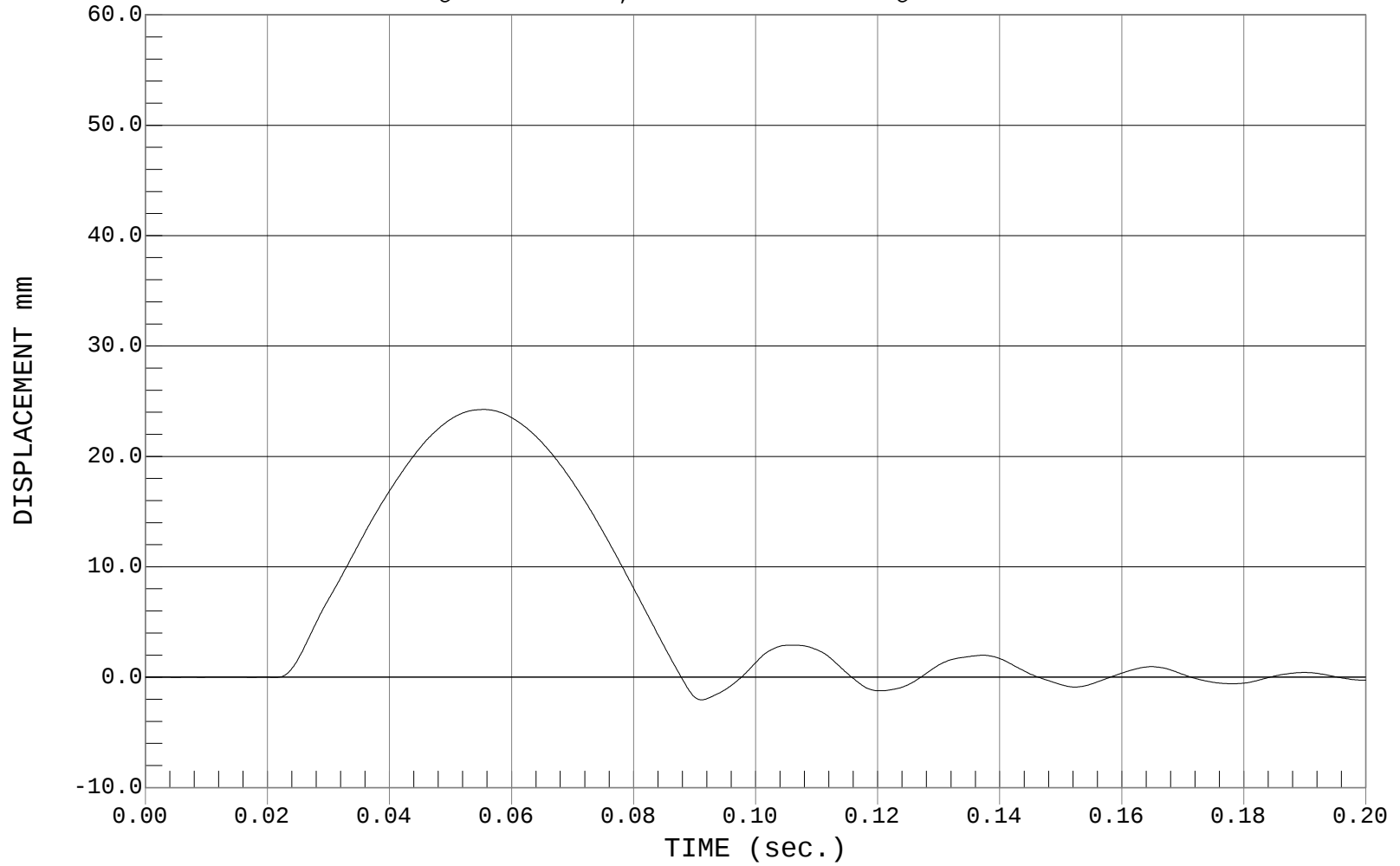
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

1 DISPLACEMENT, D01944DF.D05

Ymin = -2.06 mm @ 0.0911 sec., Ymax = 24.25 mm @ 0.0554 sec.





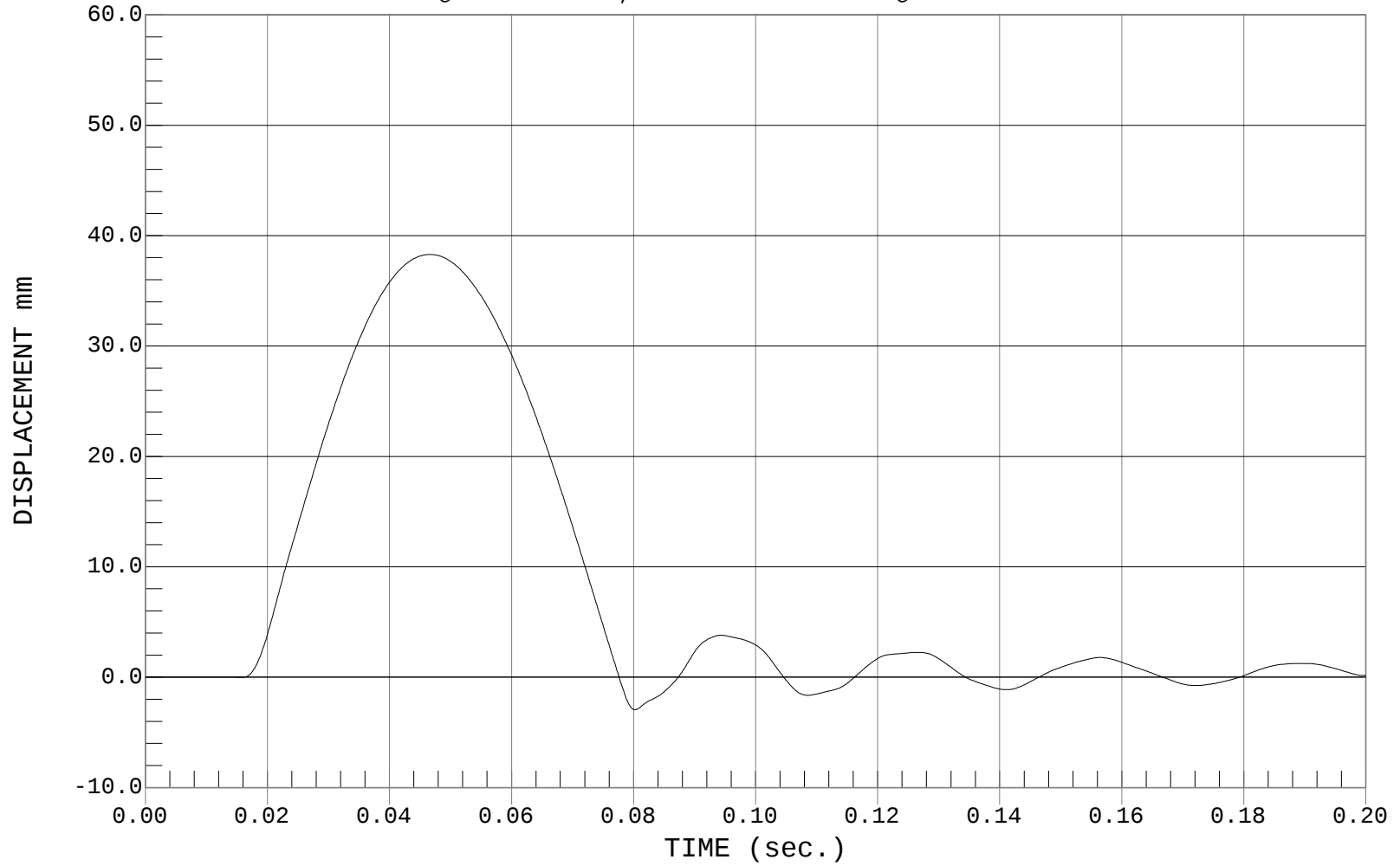
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01944DF.D06

Ymin = -2.95 mm @ 0.0802 sec., Ymax = 38.29 mm @ 0.0466 sec.





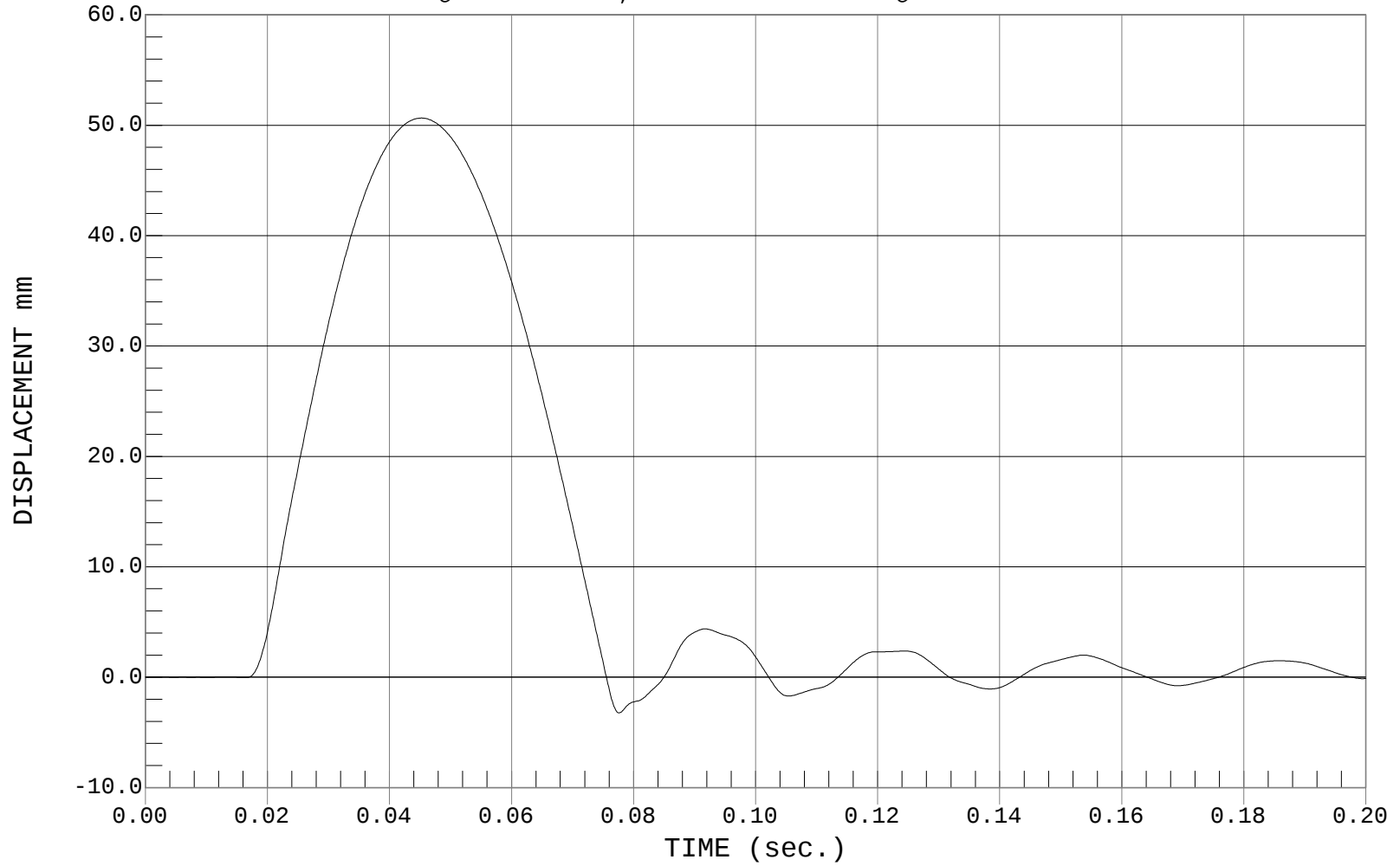
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01944DF.D07

Ymin = -3.24 mm @ 0.0776 sec., Ymax = 50.66 mm @ 0.0453 sec.





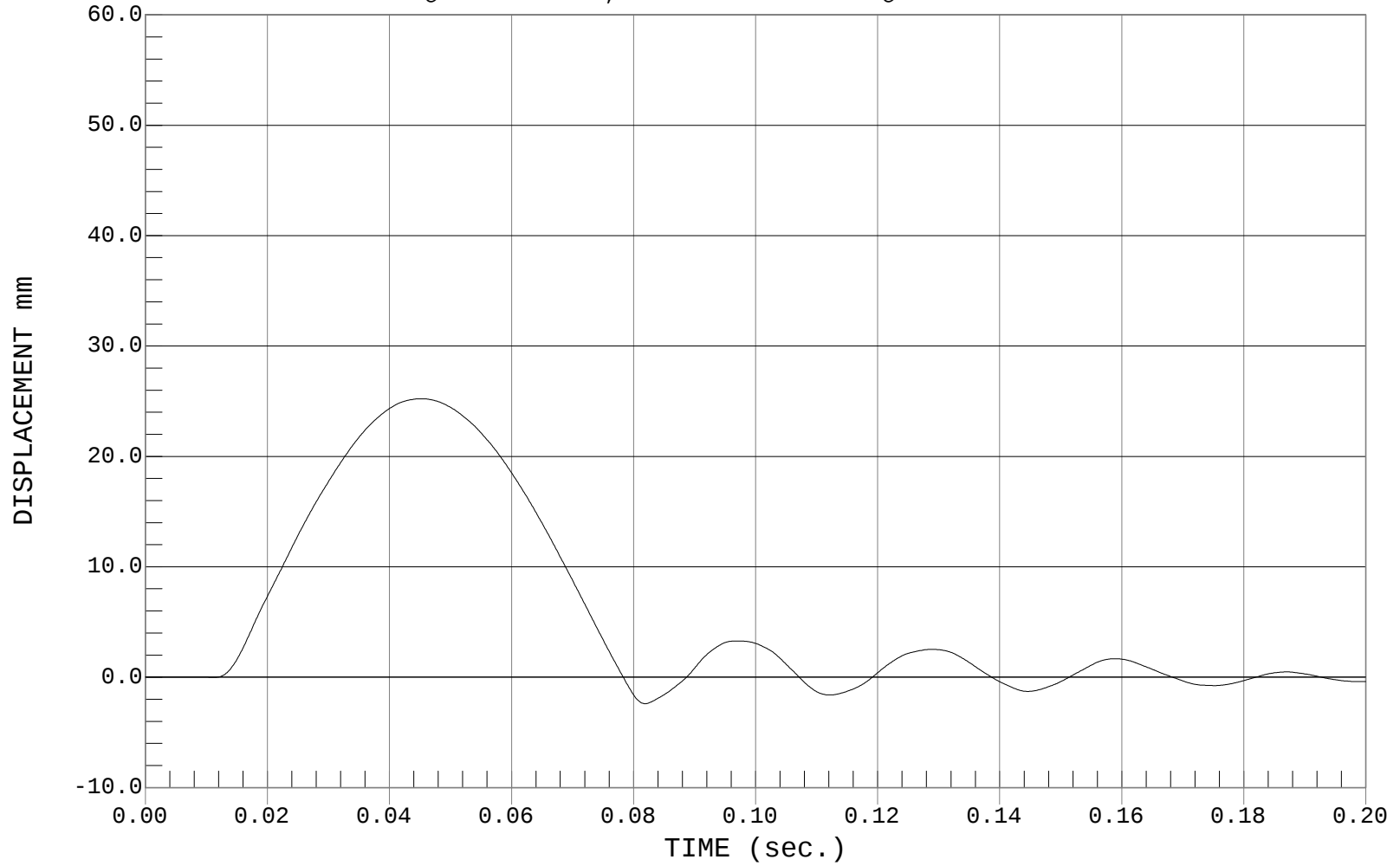
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01945DF.D05

Ymin = -2.4 mm @ 0.0819 sec., Ymax = 25.22 mm @ 0.0453 sec.





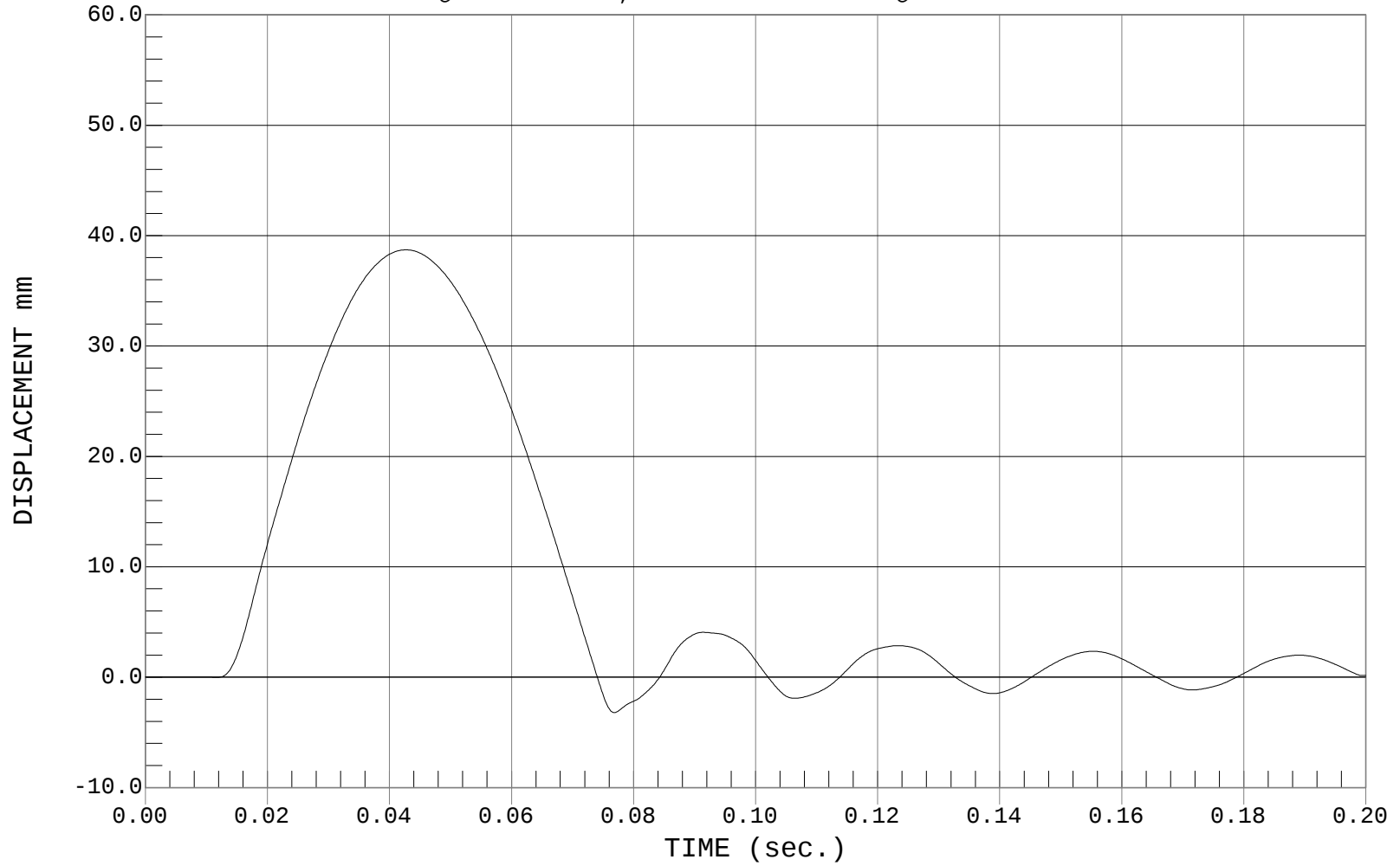
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01945DF.D06

Ymin = -3.21 mm @ 0.0768 sec., Ymax = 38.72 mm @ 0.0427 sec.





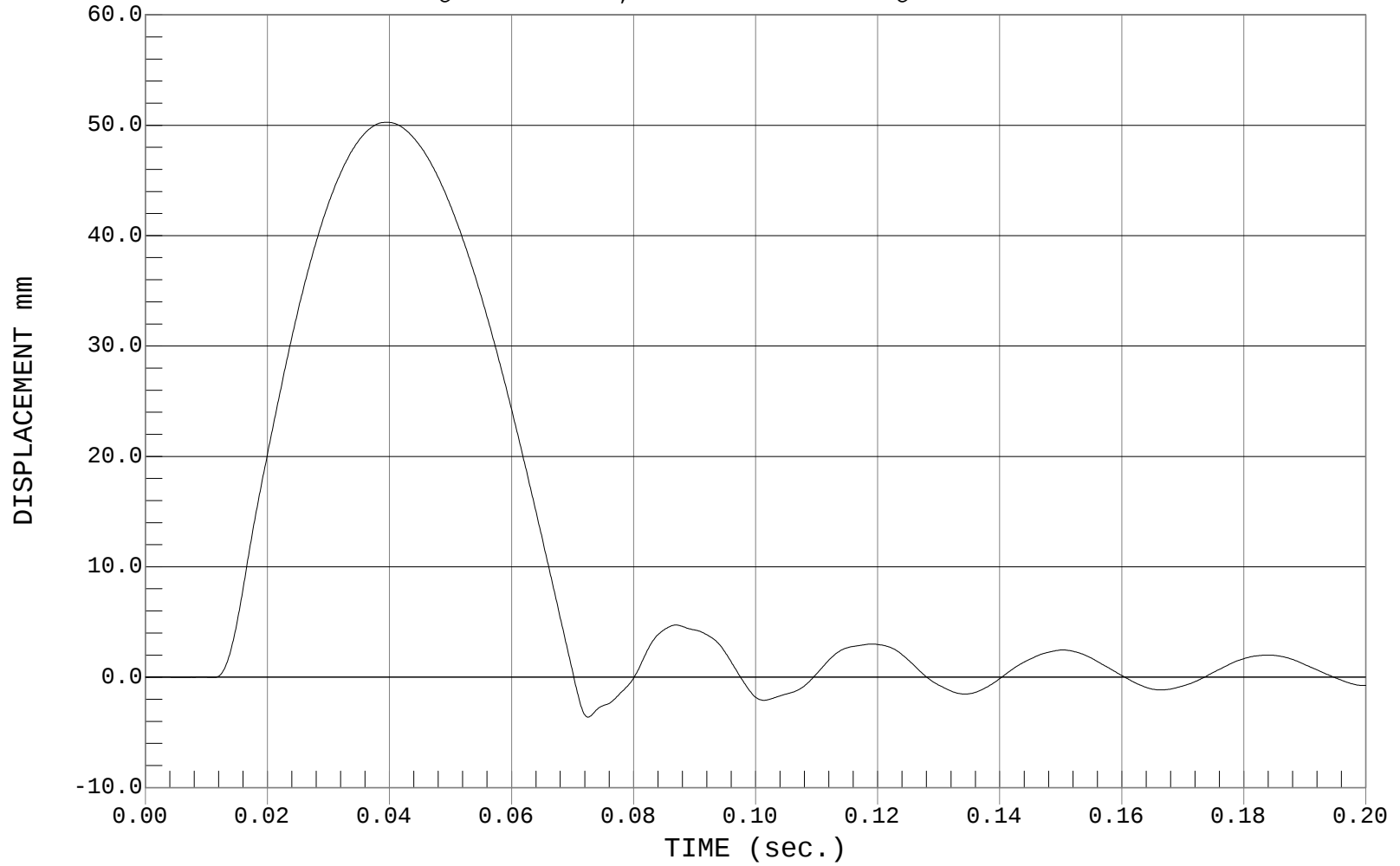
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01945DF.D07

Ymin = -3.63 mm @ 0.0725 sec., Ymax = 50.27 mm @ 0.0395 sec.





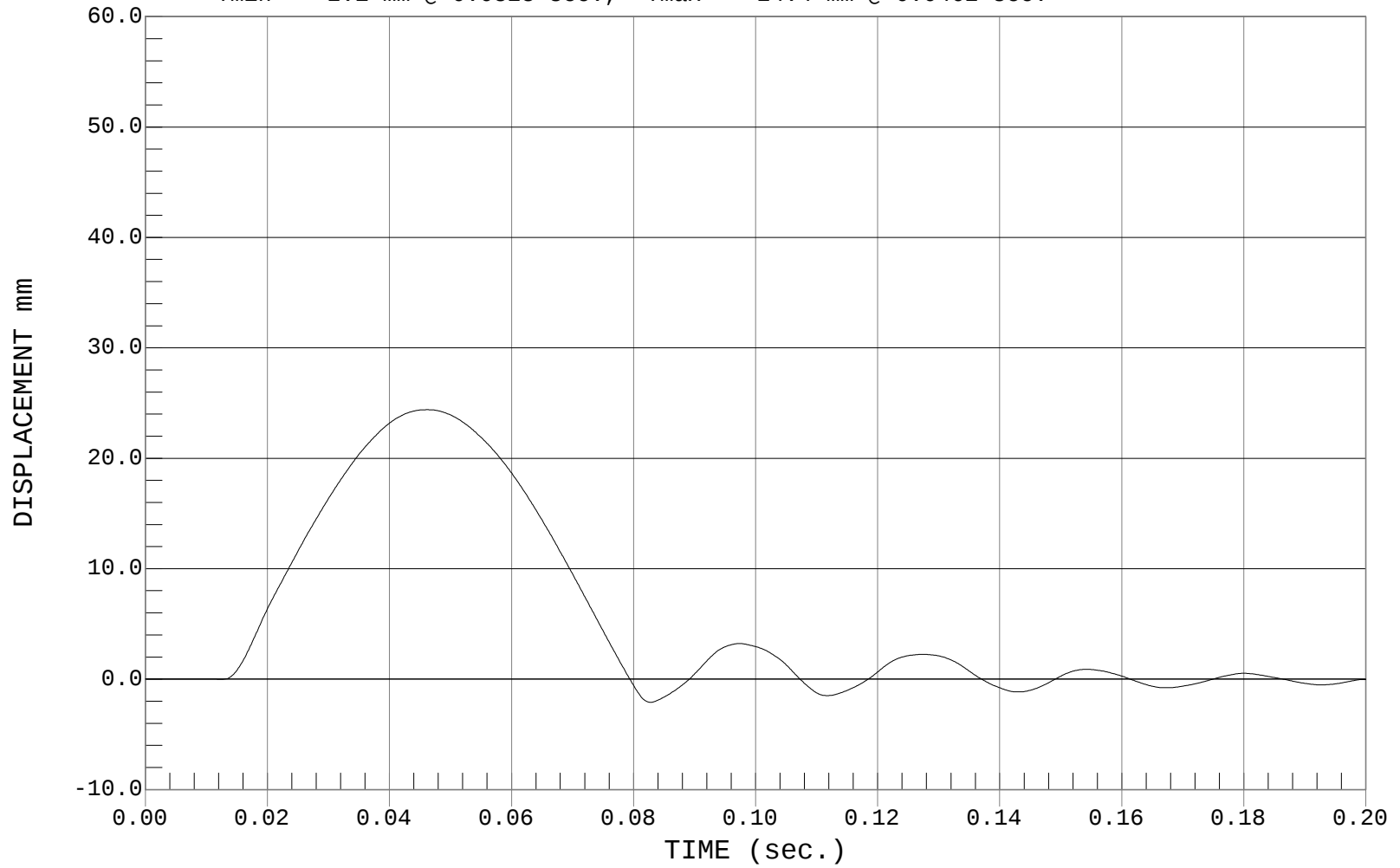
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01946DF.D05

Ymin = -2.1 mm @ 0.0828 sec., Ymax = 24.4 mm @ 0.0462 sec.





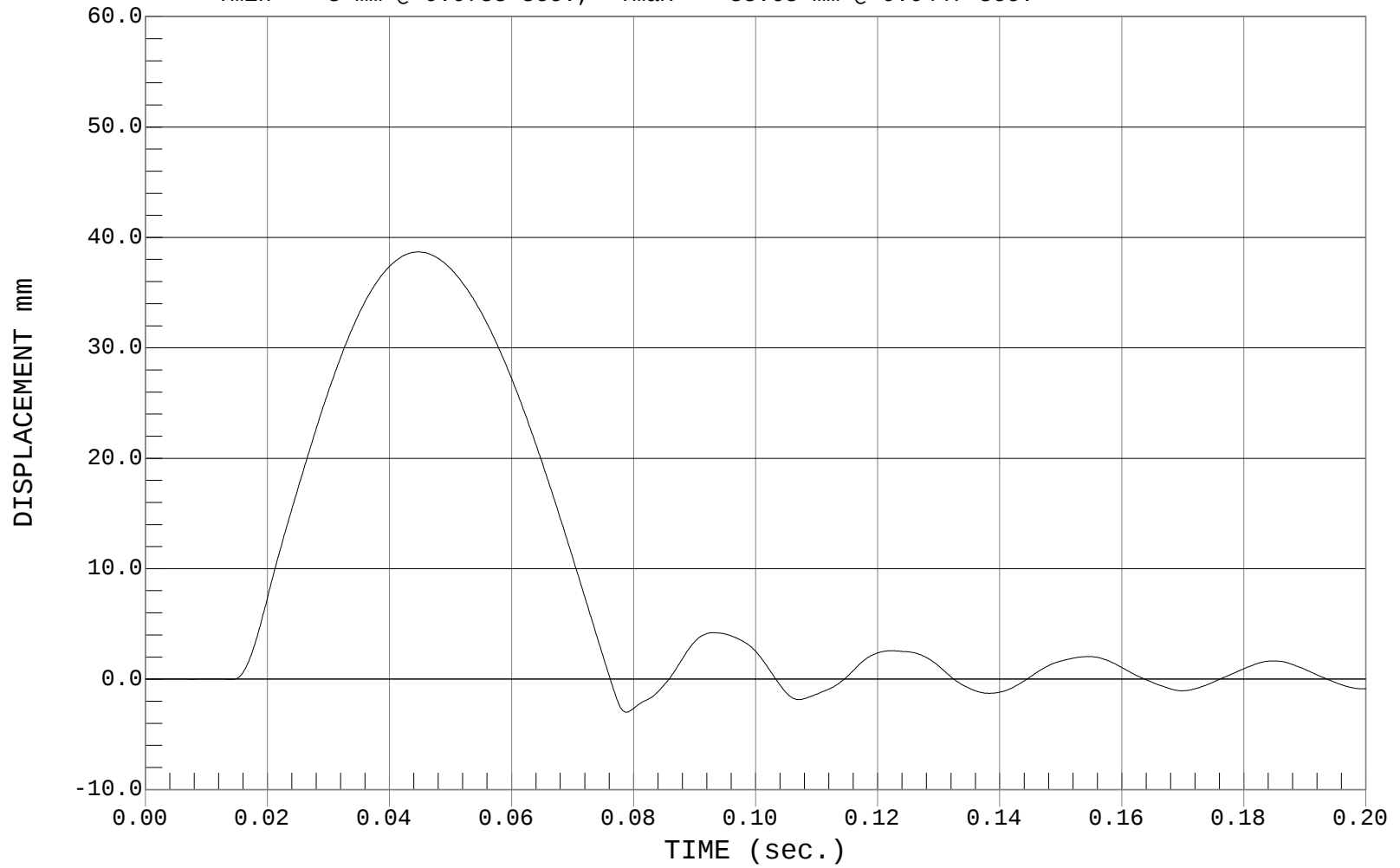
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01946DF.D06

Ymin = -3 mm @ 0.0788 sec., Ymax = 38.68 mm @ 0.0447 sec.





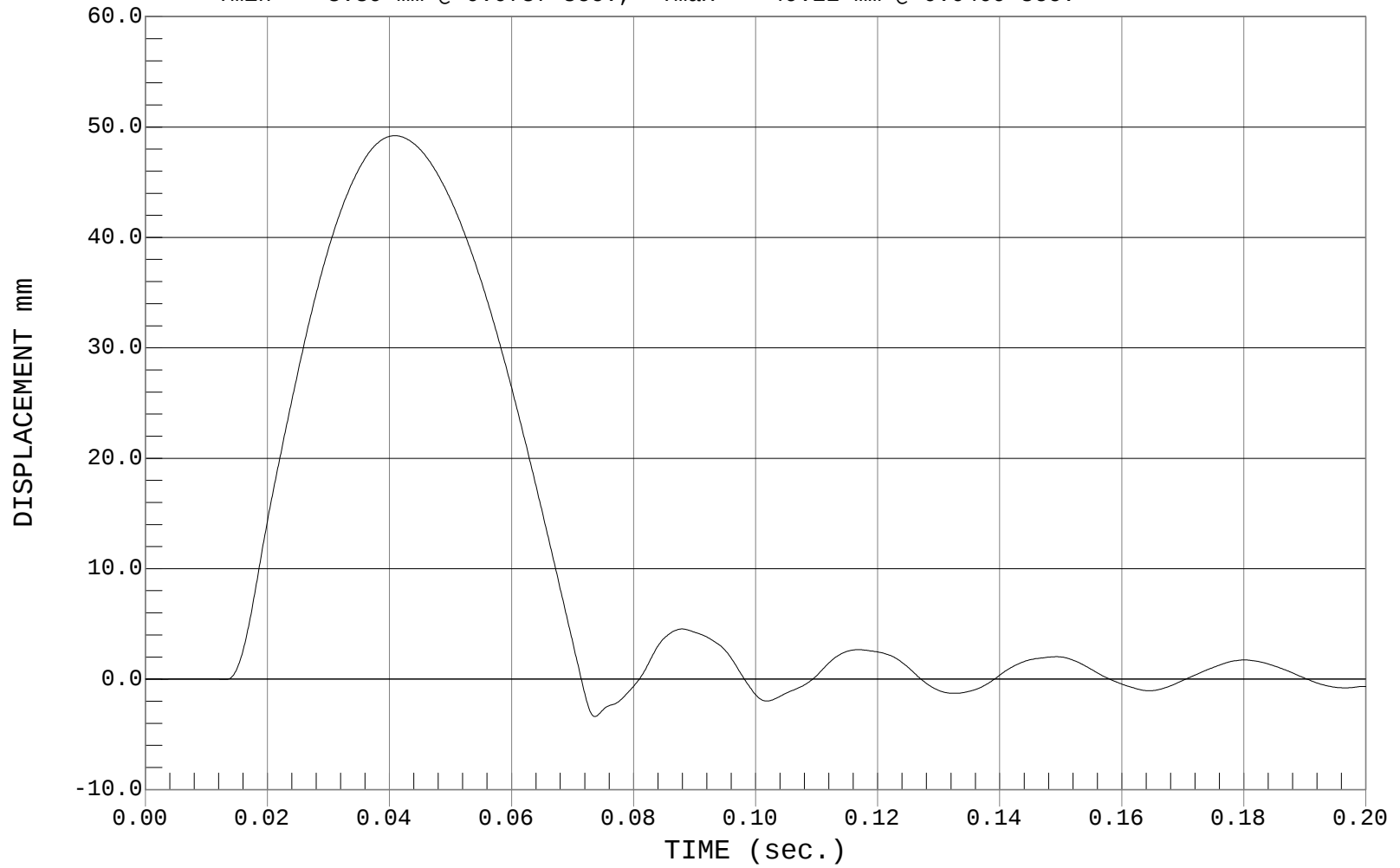
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01946DF.D07

Ymin = -3.39 mm @ 0.0737 sec., Ymax = 49.22 mm @ 0.0409 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 6/26/01

Dummy Serial Number: 009

Test Number: D01947

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	20.9
Relative Humidity (%)	10 – 70	46
Probe Speed (m/s)	3.90 – 4.10	3.99
Maximum Impact Force	4.00 – 4.80 kN	4.73
Time of Maximum Force	10.60 – 13.00 ms	11.40
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.35
Time of Max. Total Force	10.00 – 12.30 ms	11.10

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



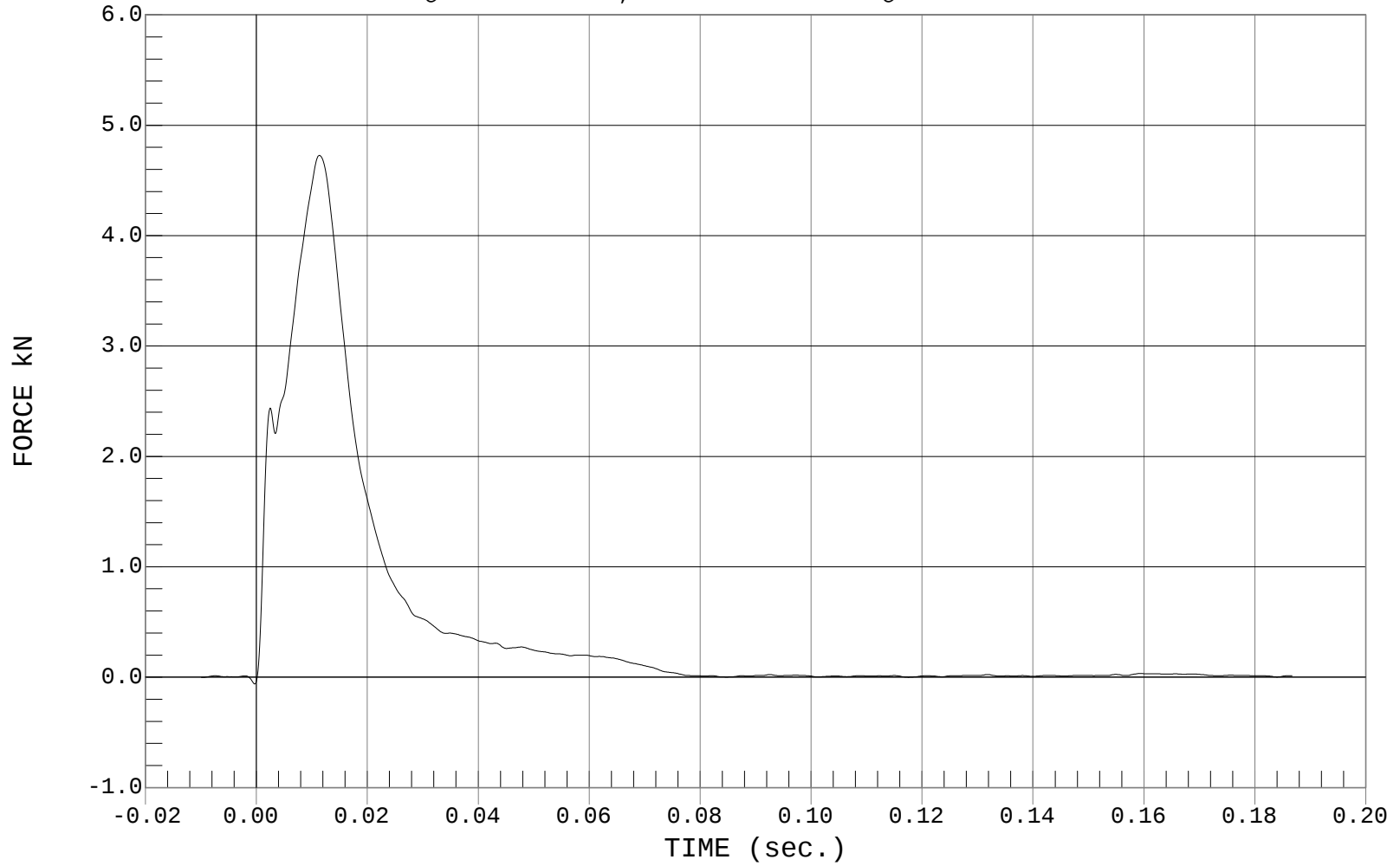
IMPACTOR FORCE

Test Desc.: Dummy Calibration -
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.11 FT/SEC, 3.99 M/SEC

— 1 FORCE, D01947FT.F01

Ymin = -.06 kN @ -0.0003 sec., Ymax = 4.73 kN @ 0.0114 sec.





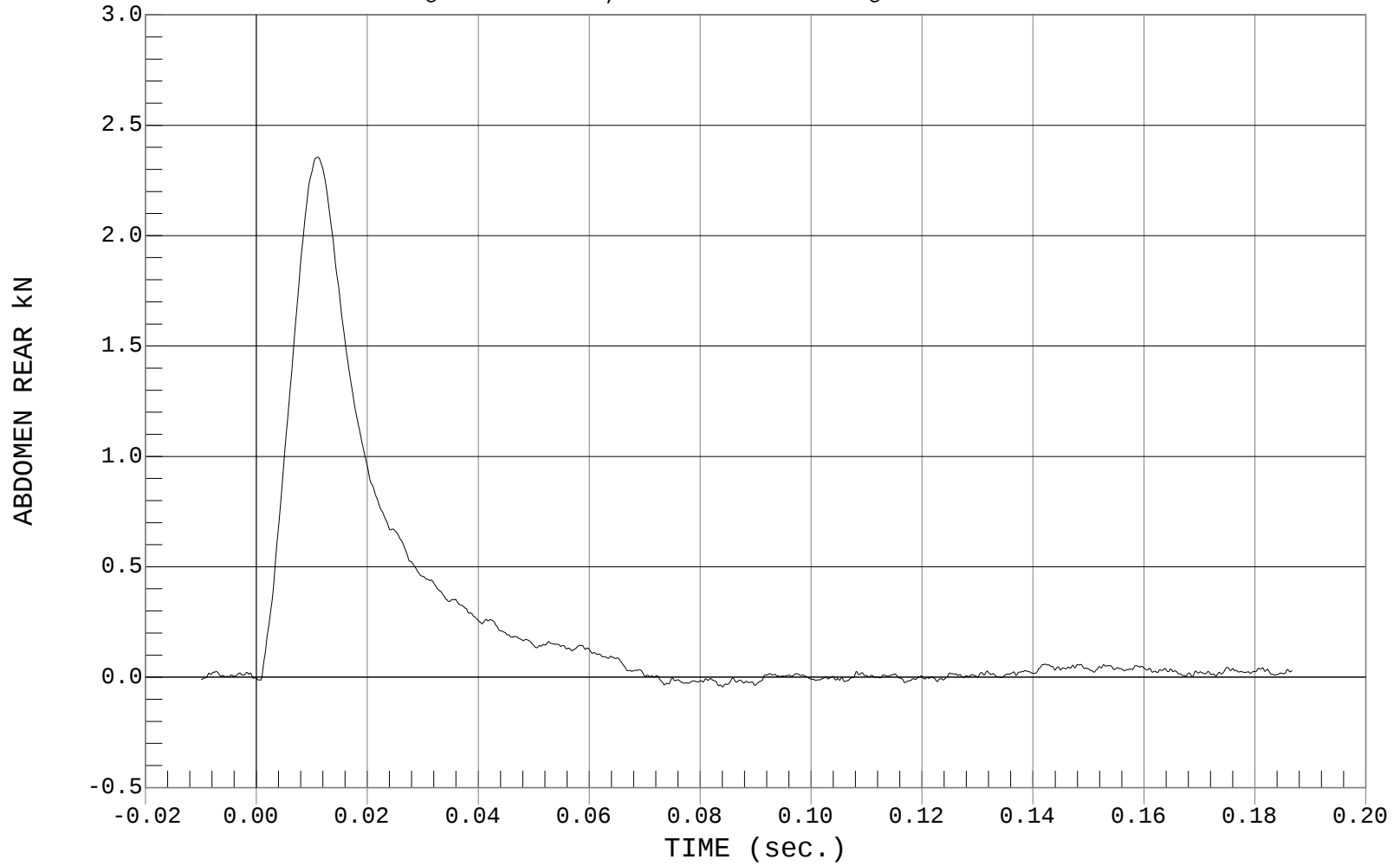
ABDOMEN FORCE

Test Desc.: Dummy Calibration -
Component: Dummy #009

Test Date: 06-26-01
Speed: 13.11 FT/SEC, 3.99 M/SEC

— 1 ABDOMEN REAR, D01947FT.F02

Ymin = -.04 kN @ 0.0840 sec., Ymax = 2.35 kN @ 0.0111 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 6/25/01

Dummy Serial Number: 009

Test Number: D01948

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	21.4
Relative Humidity (%)		10 – 70	45
Pendulum Speed		5.95 – 6.15	6.03
Pendulum Deceleration	10 msec	$\bar{2}.46 - \bar{1}.59$ m/sec	-1.92
	20 msec	$\bar{5}.25 - \bar{4}.07$ m/sec	-4.44
	25 msec	$\bar{6}.64 - \bar{5}.30$ m/sec	-5.52
	30 msec	≥ -6.5 m/sec	-6.1
Maximum Flexion Angle		45.0 – 55.0 deg	52.7
Time of Max. Flexion Angle		39.0 – 53.0 ms	44.3
Maximum Angle Theta (A)		31.0 – 35.0 deg	33.6
Time of Max. Theta (A)		44.0 – 52.0 ms	45.0
Maximum Angle Theta (B)		28.97– 31.47 deg	29.38
Time of Max. Theta (B)		44.0 – 52.0 ms	44.2

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



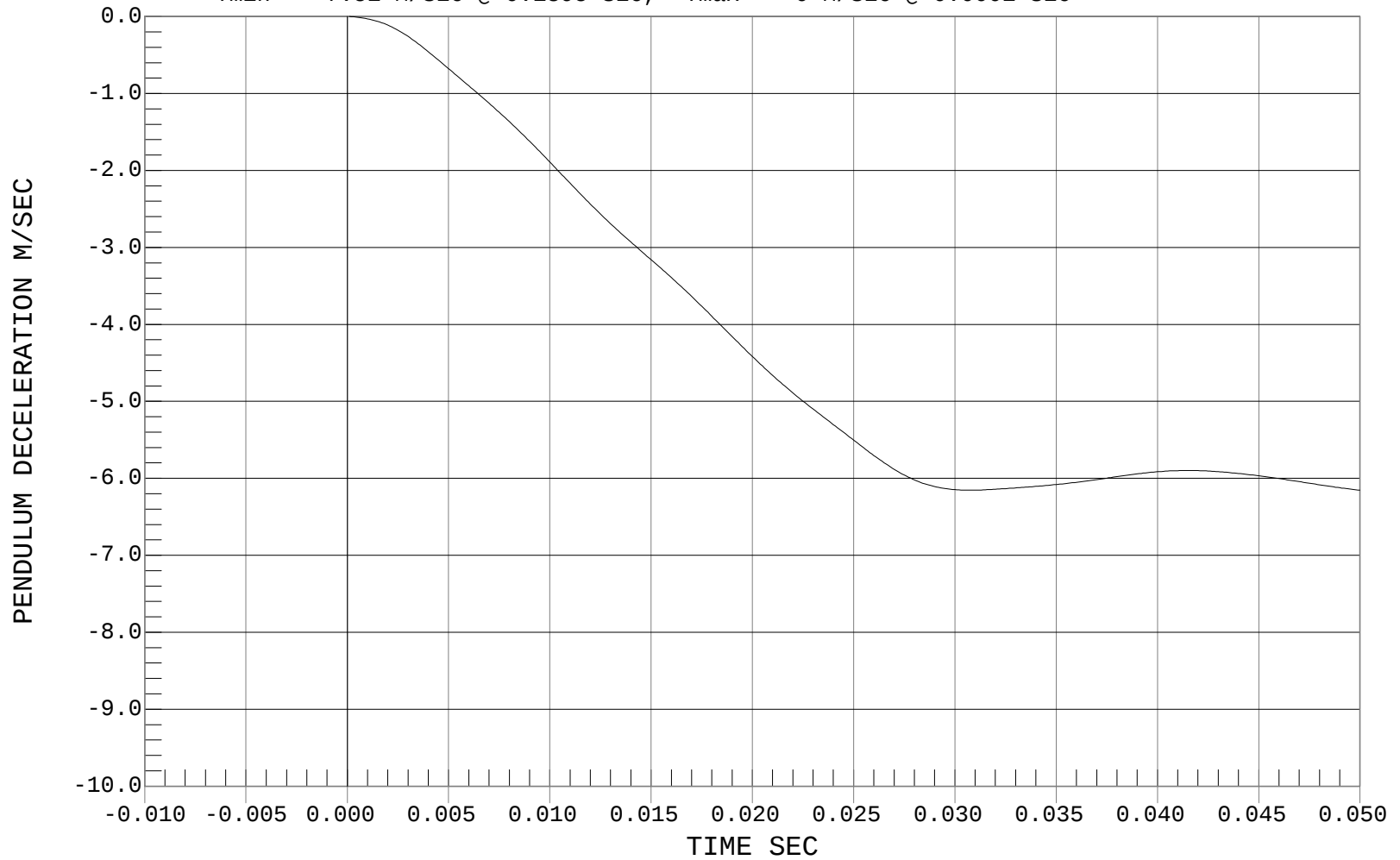
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-25-01
Speed: 19.78 FT/SEC, 6.03 M/SEC

— 1 PENDULUM DECELERATION, D01948AI.V04

Ymin = -7.51 M/SEC @ 0.1395 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





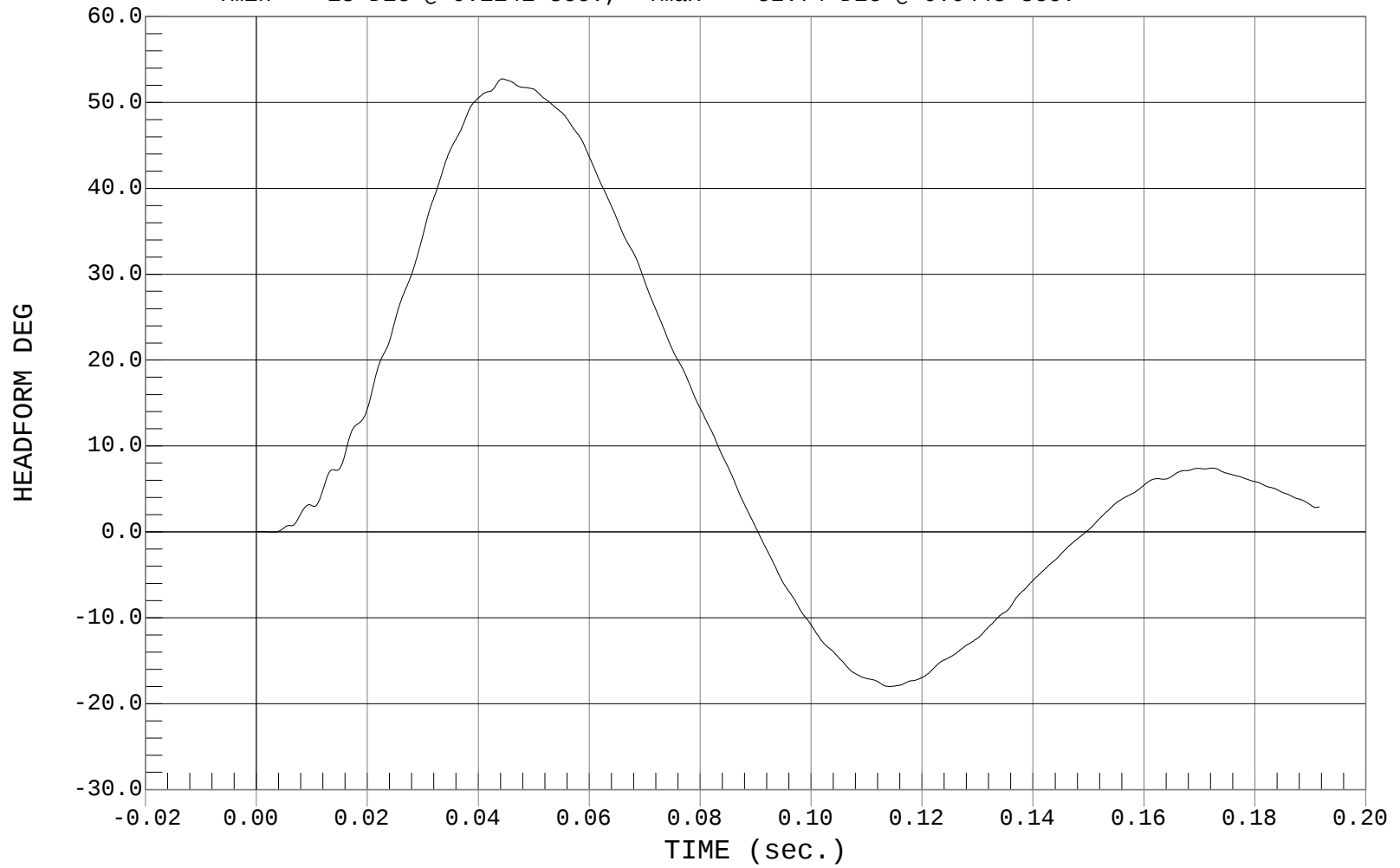
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-25-01
Speed: 19.78 FT/SEC, 6.03 M/SEC

— 1 HEADFORM, D01948DT.D08

Ymin = -18 DEG @ 0.1141 sec., Ymax = 52.74 DEG @ 0.0443 sec.





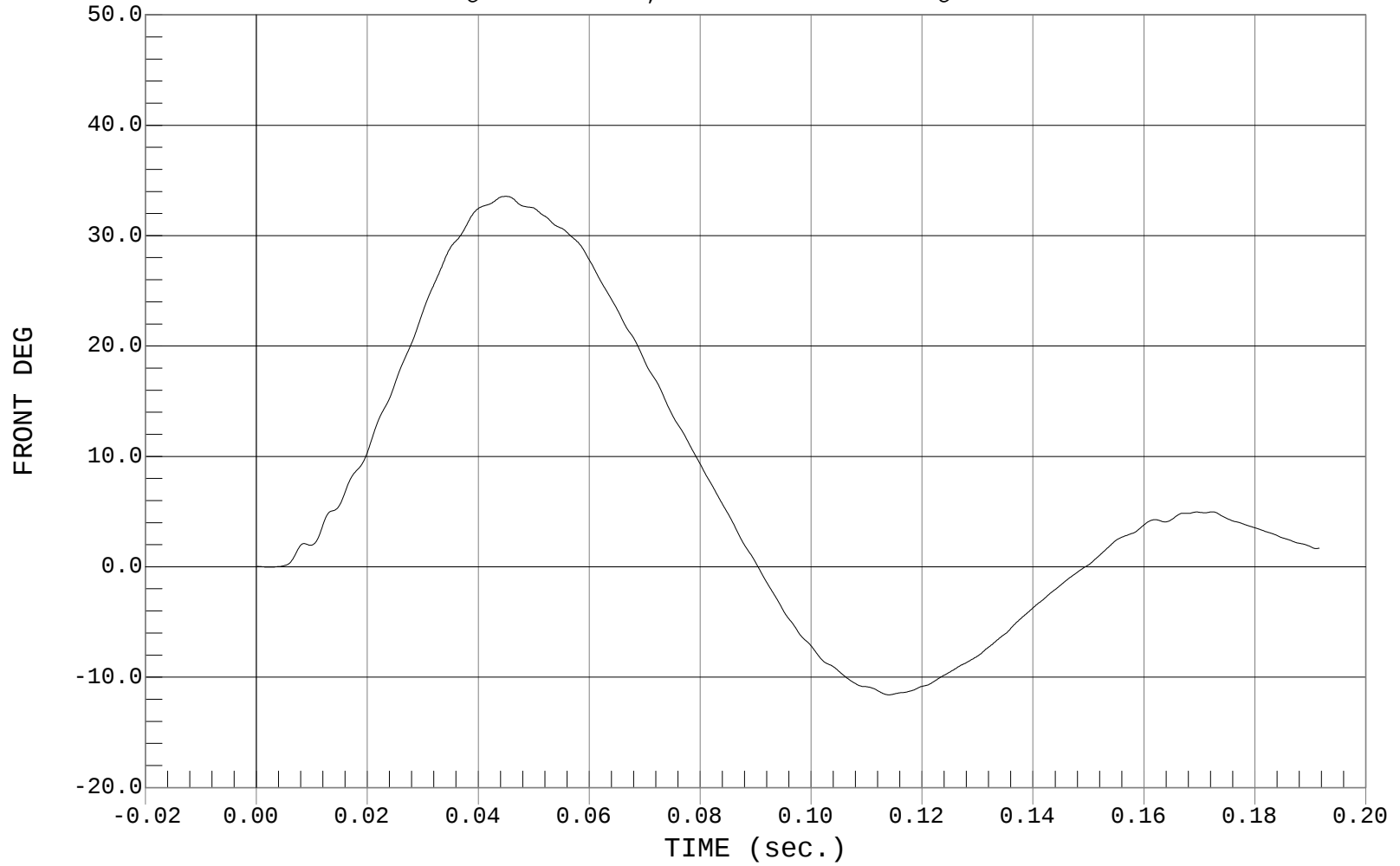
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-25-01
Speed: 19.78 FT/SEC, 6.03 M/SEC

— 1 FRONT, D01948DT.D05

Ymin = -11.59 DEG @ 0.1140 sec., Ymax = 33.56 DEG @ 0.0450 sec.





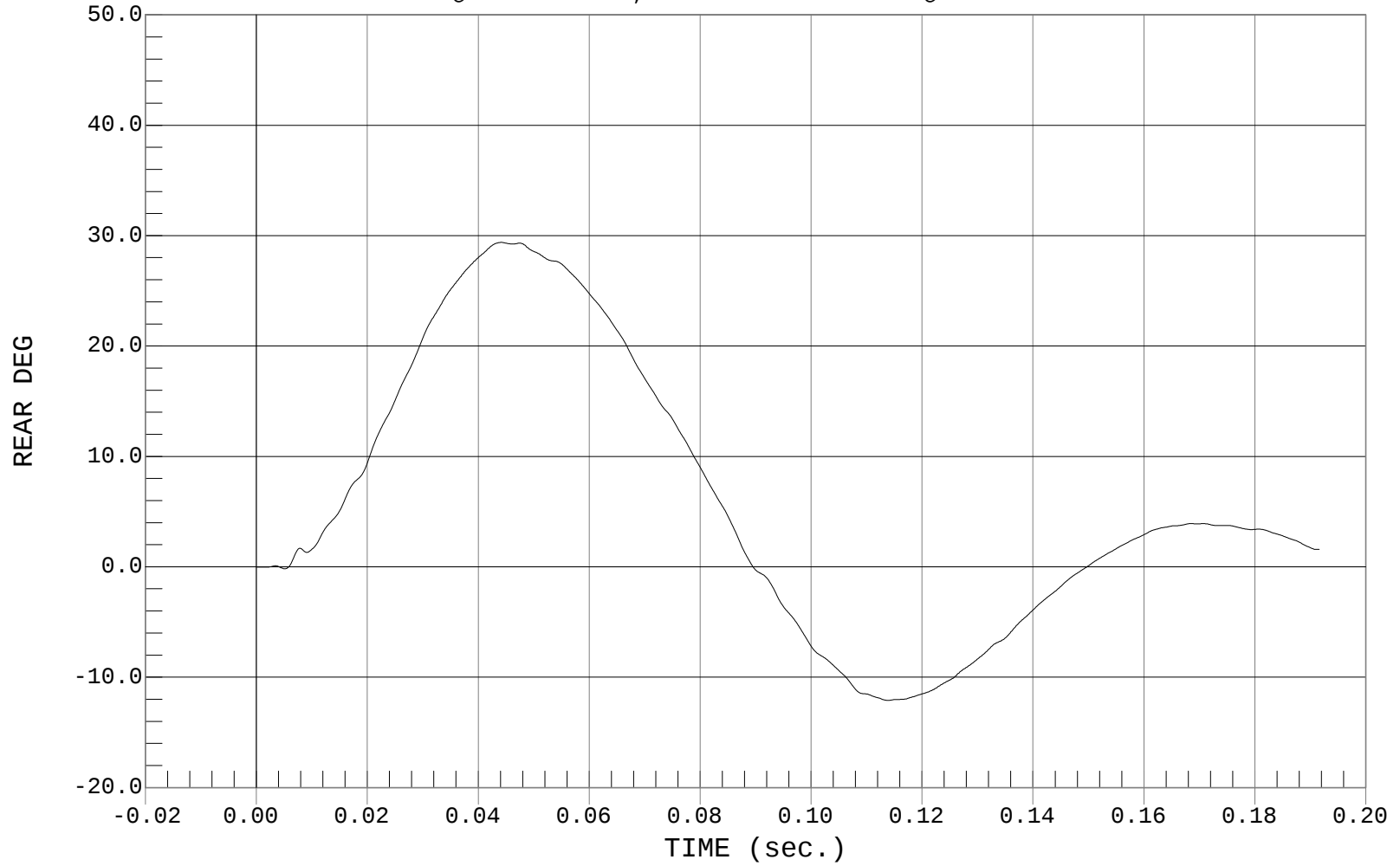
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-25-01
Speed: 19.78 FT/SEC, 6.03 M/SEC

— 1 REAR, D01948DT.D06

Ymin = -12.1 DEG @ 0.1139 sec., Ymax = 29.38 DEG @ 0.0442 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 6/26/01

Dummy Serial Number: 009

Test Number: D01949

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.0
Relative Humidity (%)	10 – 70	46
Pendulum Speed	6.20 – 6.30 m/s	6.22
Maximum Impactor Force	9.80 – 12.20 kN	10.64
Time of Max. Impactor Force	9.50 – 12.50 ms	12.00
Maximum Pubic Force	2.65 – 3.35 kN	3.18
Time of Max. Pubic Force	10.00 – 13.00 ms	11.80

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



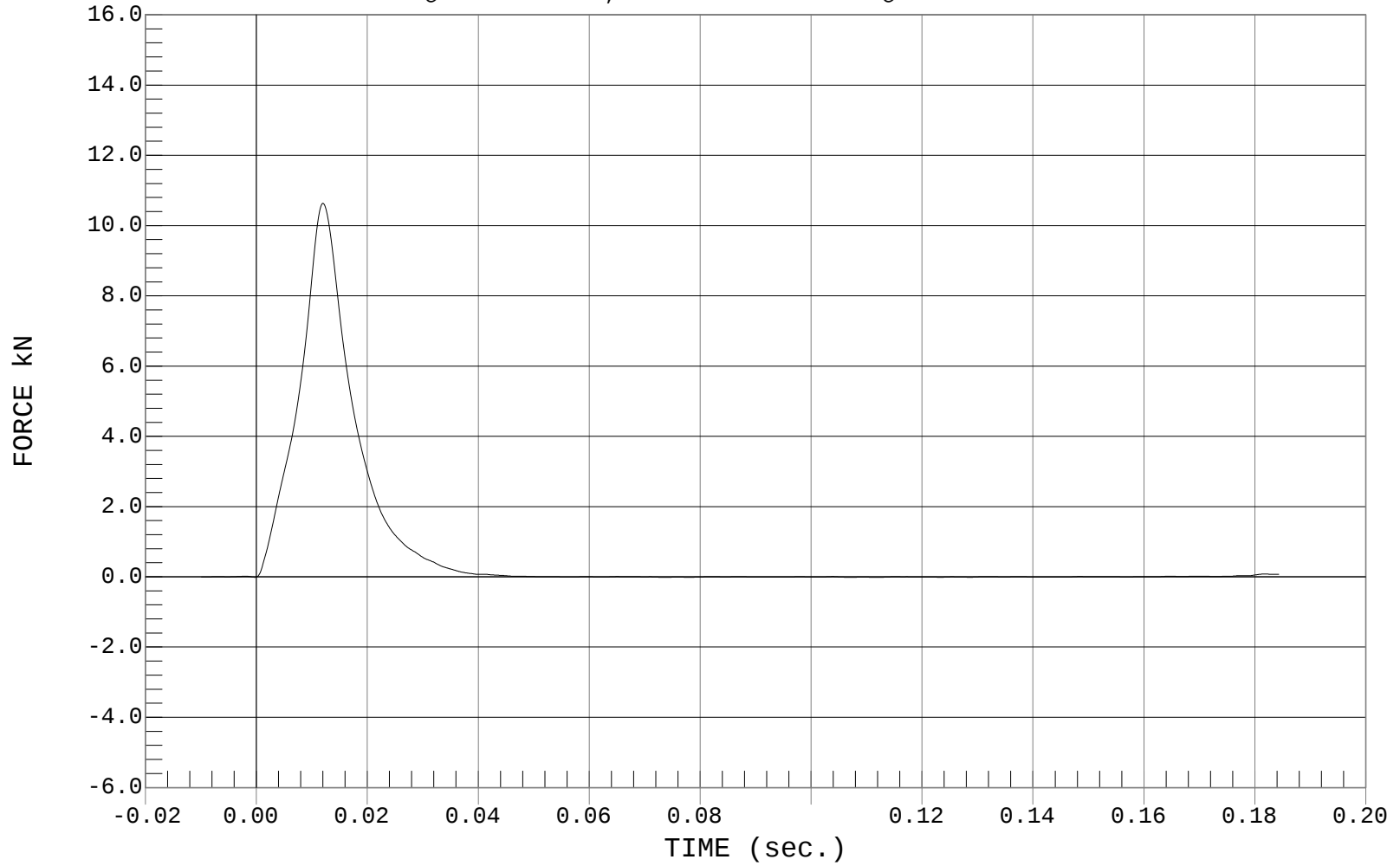
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 06-26-01
Speed: 20.41 FT/SEC, 6.22 M/SEC

— 1 FORCE, D01949FT.F01

Ymin = -.02 kN @ 0.1117 sec., Ymax = 10.64 kN @ 0.0120 sec.





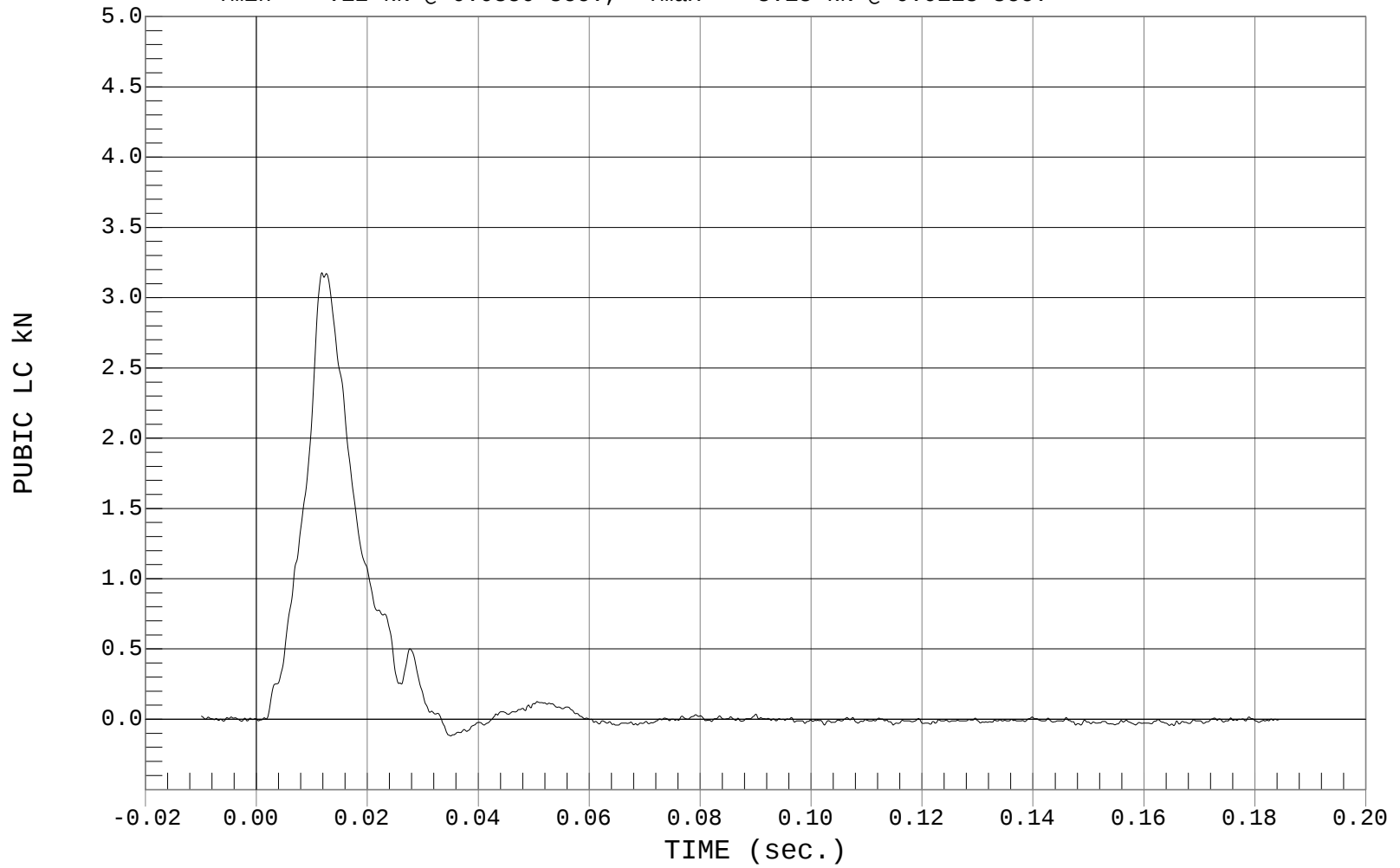
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 06-26-01
Speed: 20.41 FT/SEC, 6.22 M/SEC

— 1 PUBIC LC, D01949FT.F02

Ymin = -.12 kN @ 0.0350 sec., Ymax = 3.18 kN @ 0.0118 sec.



CERTIFICATION DATA

Dummy Serial Number: 025

Calibration Test Results Summary

Dummy Serial Number: 025

Pre-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Flexion Test:	The neck passed all flexion test requirements.
Neck Extension Test:	The neck passed all extension test requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Torso Flexion:	The torso passed all flexion test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
HYBRID III 3 YEAR OLD

Date: 6/22/01

Dummy Serial Number: 025

Test Number: D01931

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.5
Relative Humidity (%)	10 – 70	50
Peak Resultant Acceleration	250 – 280 g's	250
Peak Lateral Acceleration	± 15 g's	-3
Is Acceleration Curve Unimodal	within 10% of peak	Yes

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



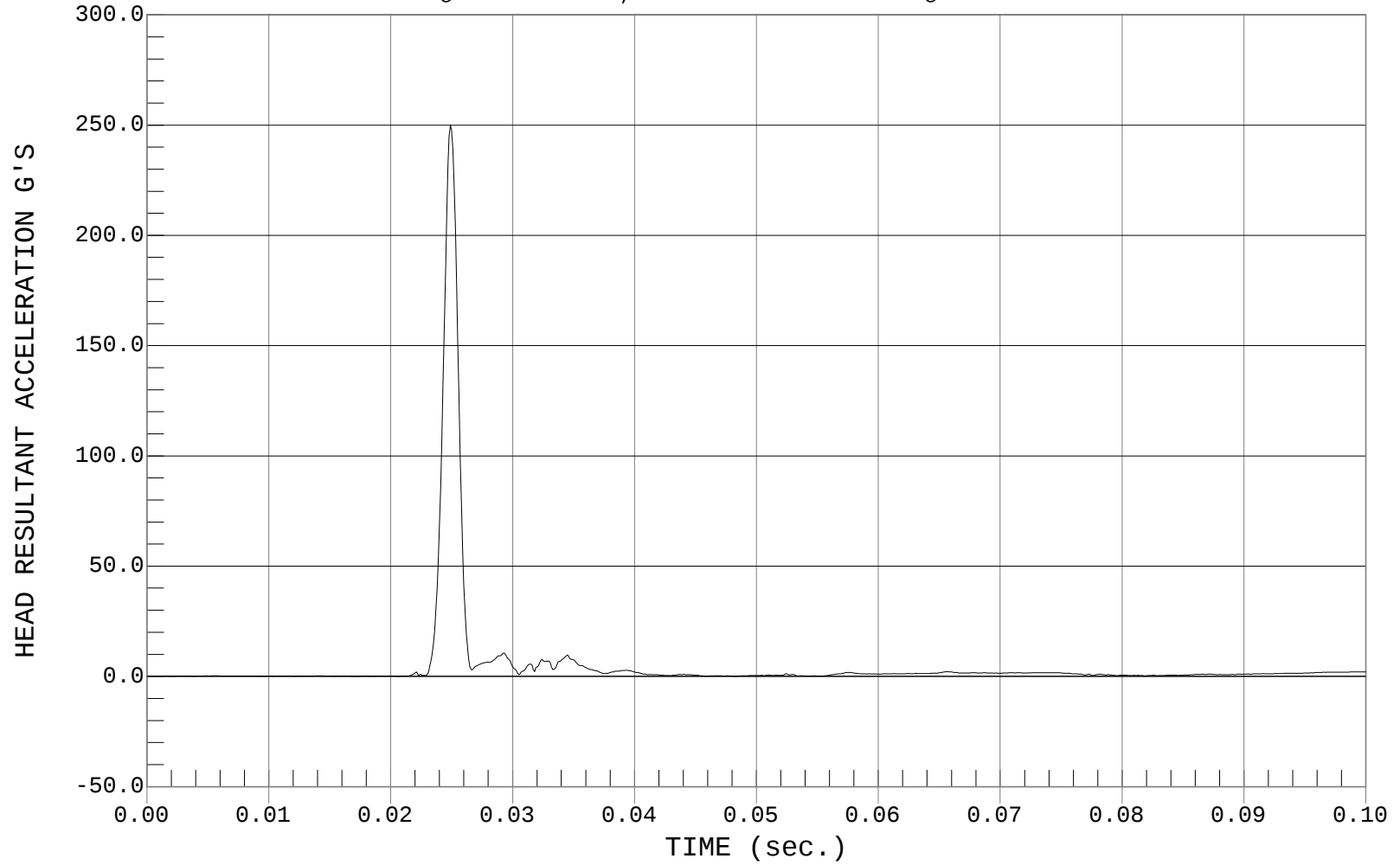
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #025

Test Date: 06-22-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01931AV.A01

Ymin = .06 G'S @ 0.0001 sec., Ymax = 250.01 G'S @ 0.0249 sec.





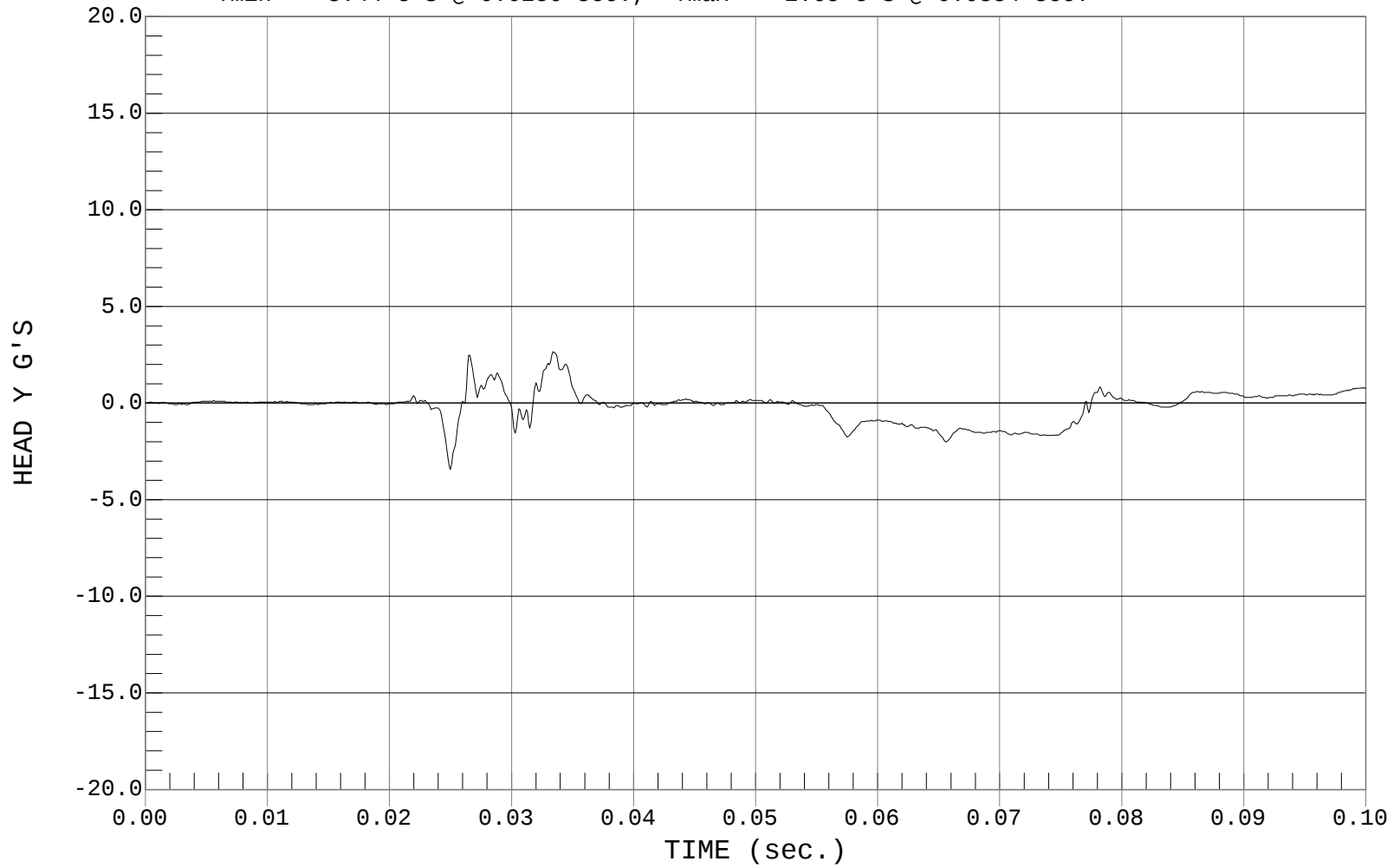
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #025

Test Date: 06-22-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD Y, D01931AR.A02

Ymin = -3.44 G'S @ 0.0250 sec., Ymax = 2.65 G'S @ 0.0334 sec.



MGA RESEARCH CORPORATION
NECK FLEXION TEST
HYBRID III 3 YEAR OLD

Date: 6/22/01

Dummy Serial Number: 025

Test Number: D01932

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		20.6 – 22.2	21.6
Relative Humidity (%)		10 – 70	52
Pendulum Speed		5.4 – 5.6 m/sec	5.5
Pendulum Deceleration	10 ms	2.0 – 2.7 m/sec	2.1
	15 ms	3.0 – 4.0 m/sec	3.2
	20 ms	4.0 – 5.1 m/sec	4.3
D Plane Rotation	Max.	70 – 82 deg	82
Moment About Occipital Condyle	Max.	42.0 – 53.0 Nm	47.3
Positive Moment – Time Curve Decay to 10 Nm		60.0 – 80.0 ms from Time Zero	73.0

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



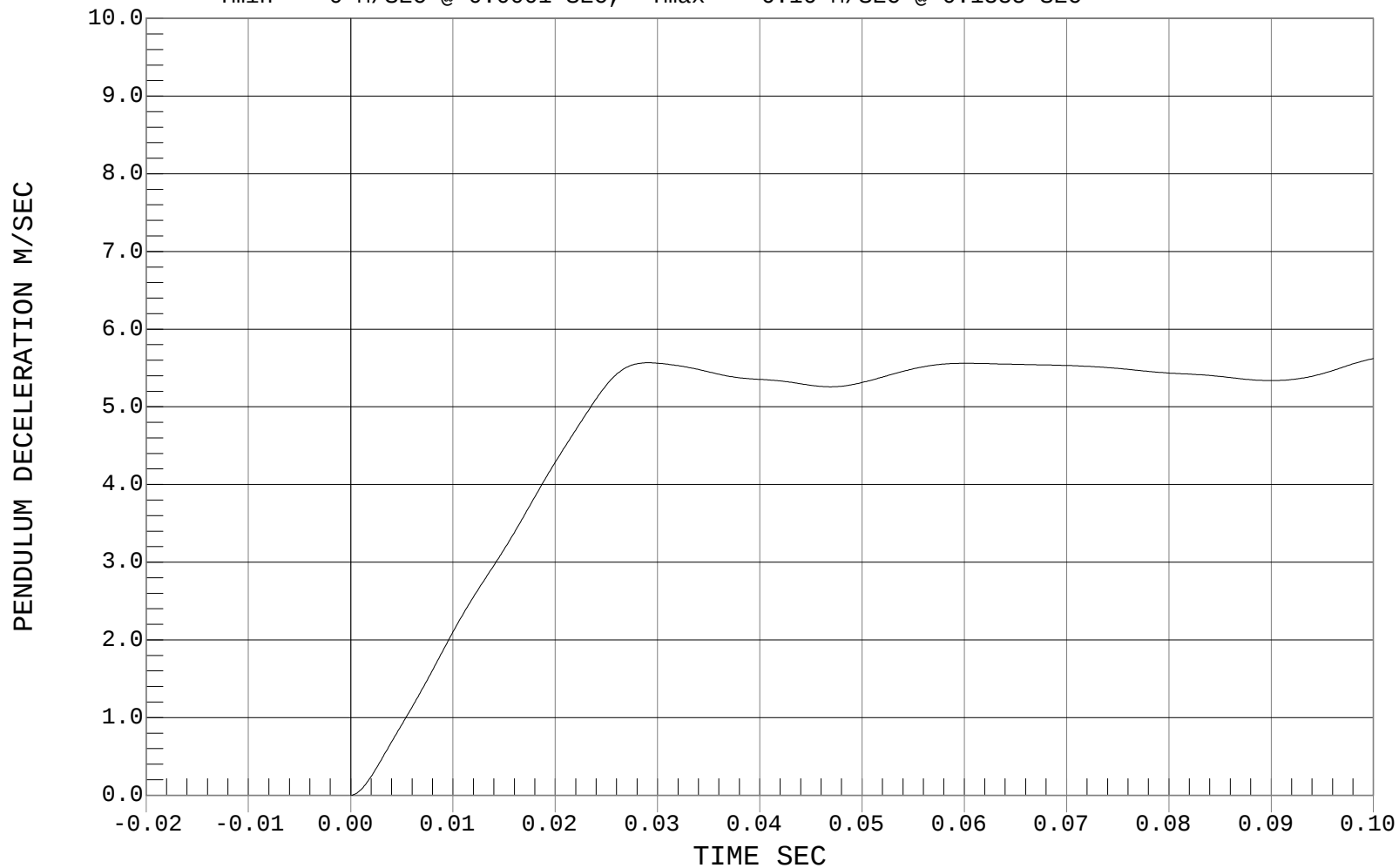
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #025

Test Date: 06-22-01
Speed: 17.95 FT/SEC, 5.47 M/SEC

— 1 PENDULUM DECELERATION, D01932AI.v04

Ymin = 0 M/SEC @ 0.0001 SEC, Ymax = 6.16 M/SEC @ 0.1885 SEC





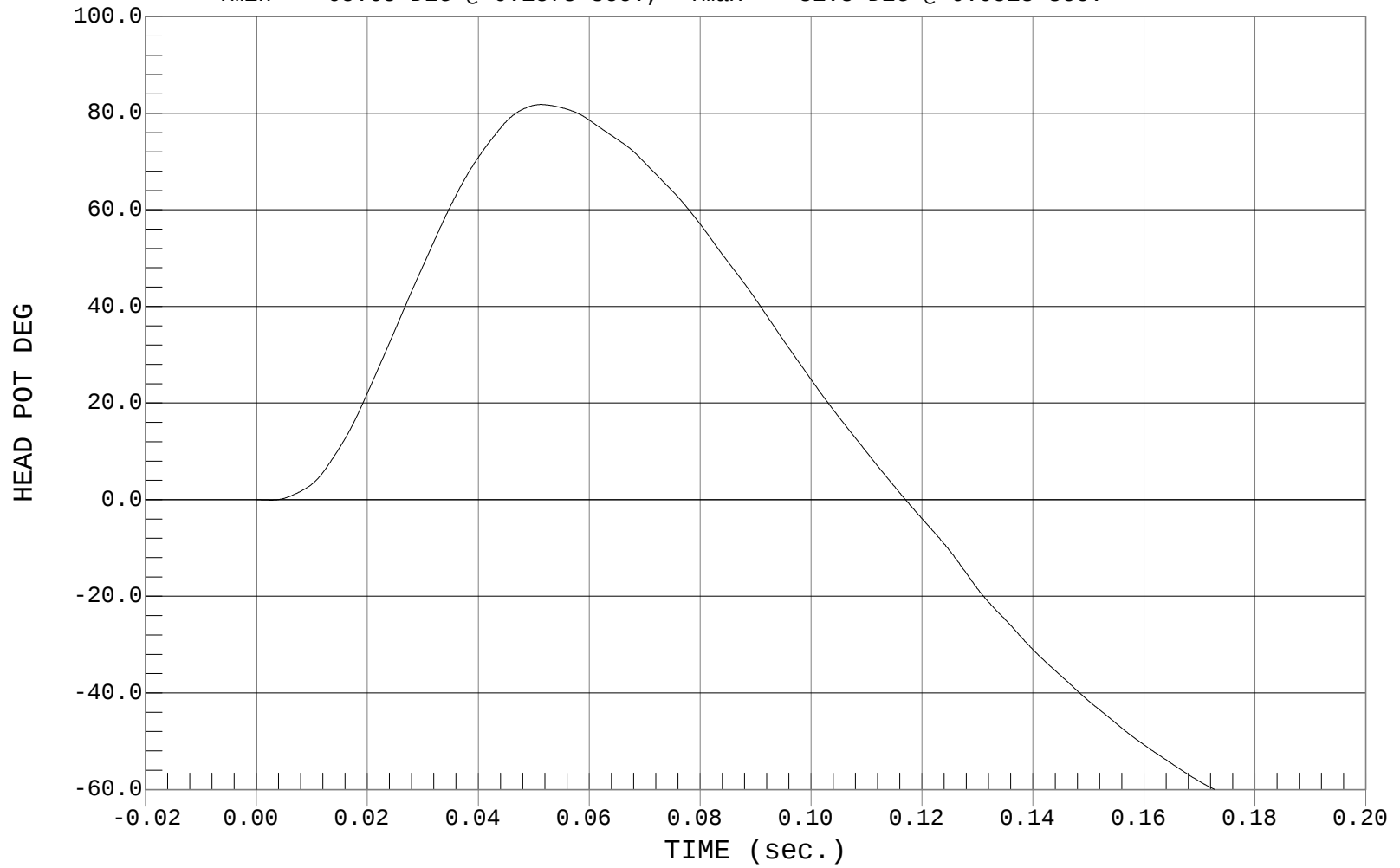
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #025

Test Date: 06-22-01
Speed: 17.95 FT/SEC, 5.47 M/SEC

— 1 HEAD POT, D01932DU.D05

Ymin = -65.65 DEG @ 0.1878 sec., Ymax = 81.8 DEG @ 0.0513 sec.





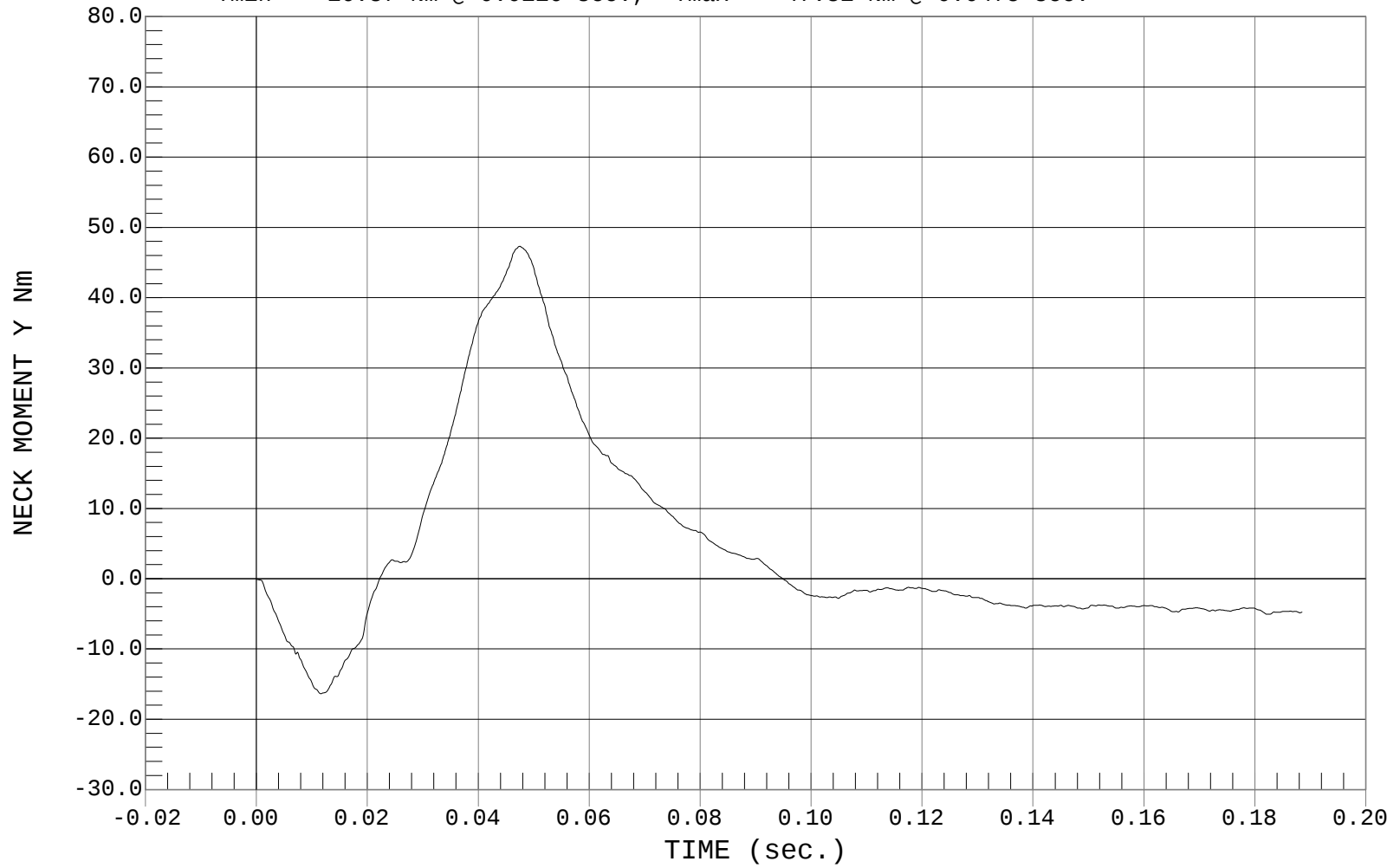
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #025

Test Date: 06-22-01
Speed: 17.95 FT/SEC, 5.47 M/SEC

— 1 NECK MOMENT Y, D01932MF.M01

Ymin = -16.37 Nm @ 0.0116 sec., Ymax = 47.31 Nm @ 0.0475 sec.



MGA RESEARCH CORPORATION
NECK EXTENSION TEST
HYBRID III 3 YEAR OLD

Date: 6/22/01

Dummy Serial Number: 025

Test Number: D01933

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		20.6 – 22.2	21.6
Relative Humidity (%)		10 – 70	52
Pendulum Speed		3.55 – 3.75 m/sec	3.6
Pendulum Deceleration	6 msec	1.0 – 1.4 m/sec	1.2
	10 msec	1.9 – 2.5 m/sec	2.1
	14 msec	2.8 – 3.5 m/sec	2.8
D Plane Rotation	Max.	83 – 93 deg.	90
Moment About Occipital Condyle	Min.	-53.3 – 43.7 Nm	-44.8
Negative Moment – Time Curve Decay Time to -10 Nm		60.0 – 80.0 ms from Time Zero	69.3

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



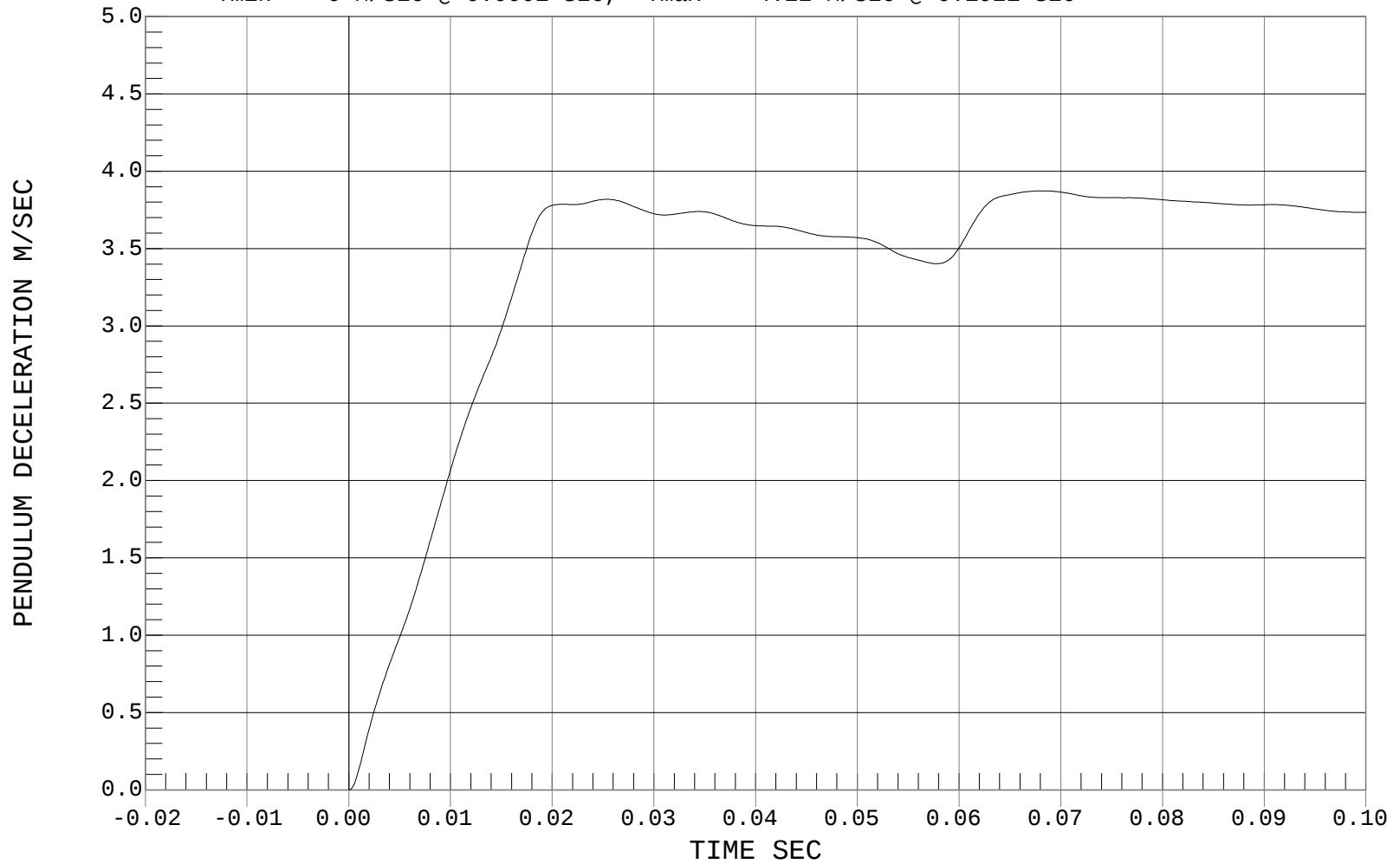
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #025

Test Date: 06-22-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

— 1 PENDULUM DECELERATION, D01933AI.V04

Ymin = 0 M/SEC @ 0.0001 SEC, Ymax = 4.22 M/SEC @ 0.1921 SEC





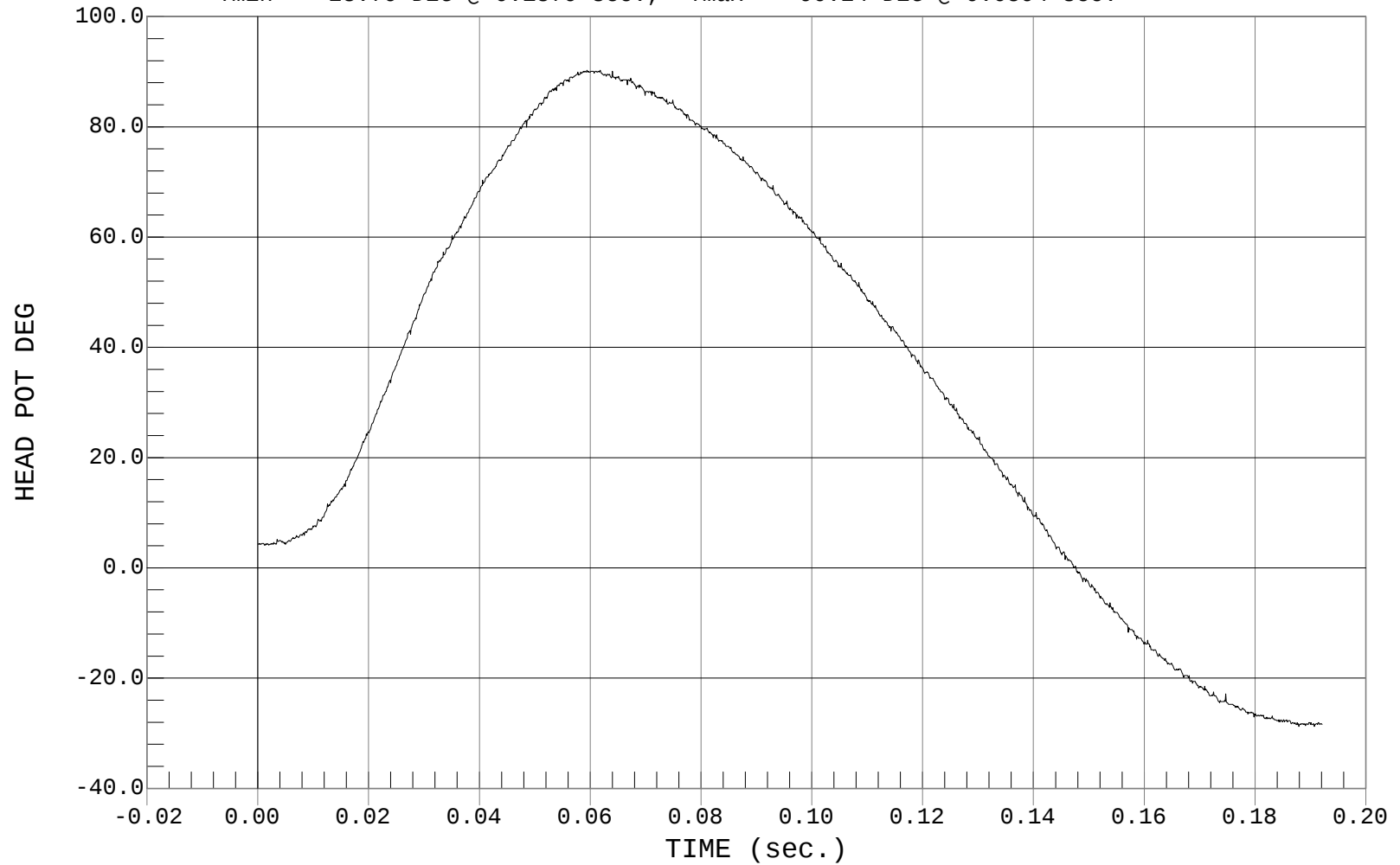
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #025

Test Date: 06-22-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

— 1 HEAD POT, D01933DU.D05

Ymin = -28.79 DEG @ 0.1879 sec., Ymax = 90.24 DEG @ 0.0594 sec.





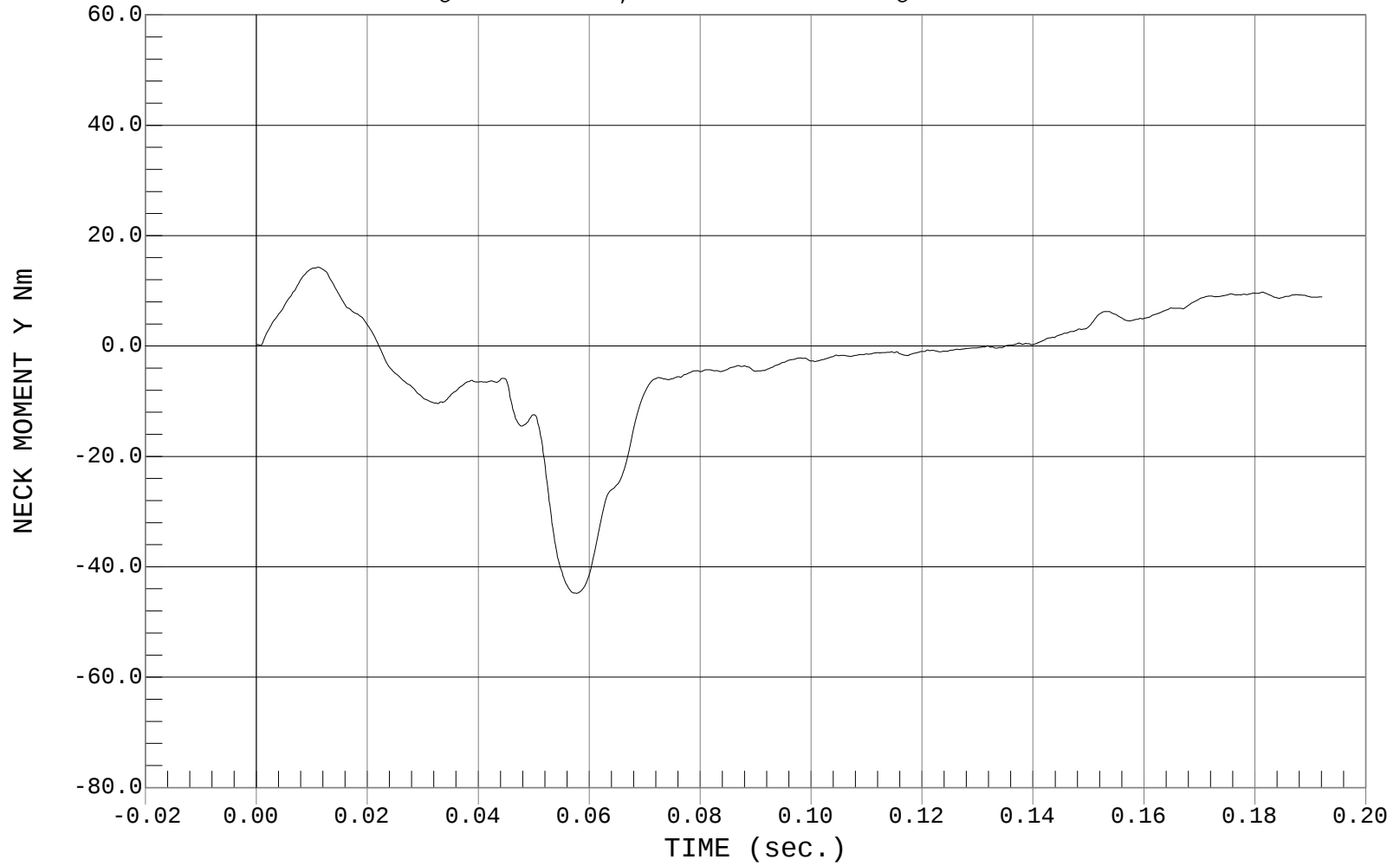
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #025

Test Date: 06-22-01
Speed: 12.00 FT/SEC, 3.66 M/SEC

— 1 NECK MOMENT Y, D01933MF.M01

Ymin = -44.8 Nm @ 0.0577 sec., Ymax = 14.25 Nm @ 0.0112 sec.



MGA RESEARCH CORPORATION
THORAX IMPACT TEST
HYBRID III 3 YEAR OLD

Date: 6/21/01

Dummy Serial Number: 025

Test Number: D01934

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	20.6 – 22.2	21.4
Relative Humidity (%)	10 – 70%	45
Probe Speed (m/s)	5.9 – 6.1 m/sec	6.0
Peak Deflection	32 – 38 mm	34
Peak Resistive Force	.68 - .81 KN	.80
Internal Hysteresis	65 – 85%	71
Max Force in Deflection Corridor	Max .86 KN	.86

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



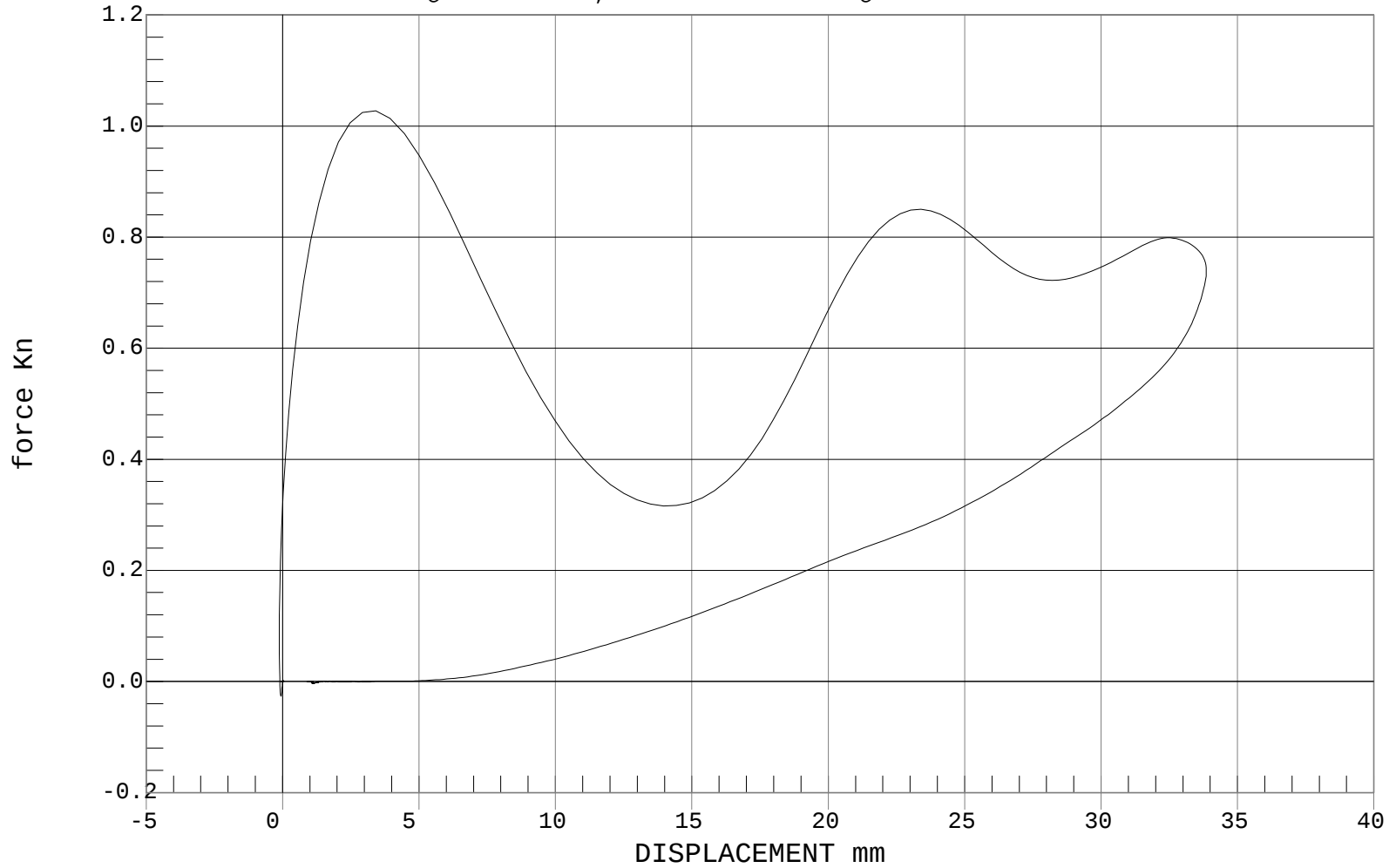
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact

Test Date: 06-21-01

— 1 force, D01934CH.FVD

Ymin = -.03 Kn @ -0.0634 mm, Ymax = 1.03 Kn @ 3.4151 mm



MGA RESEARCH CORPORATION
TORSO FLEXION TEST
HYBRID III 3 YEAR OLD

Date: 6/22/01

Dummy Serial Number: 025

Test Number: D01935

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.5
Relative Humidity (%)	10 – 70	46
Force @ 45°	130 – 180 N	148
Initial Angle (deg)	0 – 15	4
Return Angle (deg)	0 – 10	6

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

DUMMY INSPECTION CHECKLIST

Type: Hybrid III 3 year old

Dummy Serial Number: 025

Inspected By: Tim Michnay

Date: 6/22/01

<u>Part</u>	<u>Items Checked</u>	<u>Comments</u>
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual, cable torque, nodding blocks	OK
Clavicles	visual, bumpers, range of motion	OK
Arms/Hands	visual, bumpers, range of motion	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure, stiffeners	OK
Sternum	visual, bumpers	OK
Lumbar spine	visual, cable torque	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual, load cell bolts	OK
Knees	visual, stops, inserts, sliders	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

Notes (include component/problem/action/reason):

CERTIFICATION DATA

Dummy Serial Number: 144c

Calibration Test Results Summary

Dummy Serial Number: 144c

Pre-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Flexion Test:	The neck passed all flexion test requirements.
Neck Extension Test:	The neck passed all extension test requirements.
Thorax Impact Test:	The thorax passed all impact test requirements.
Knee Impact Tests:	Both knees passed all impact test requirements.
Torso Flexion Test:	The torso passed all flexion test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
HYBRID III 6 Year Old

Date: 6/14/01
Dummy Serial Number: 144c
Test Number: D01871

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.2
Relative Humidity (%)	10 – 70	55
Peak Resultant Acceleration	245 – 300 g's	264
Peak Lateral Acceleration	± 15 g's	-13
Is Acceleration Curve Unimodal	within 10% of peak	Yes

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



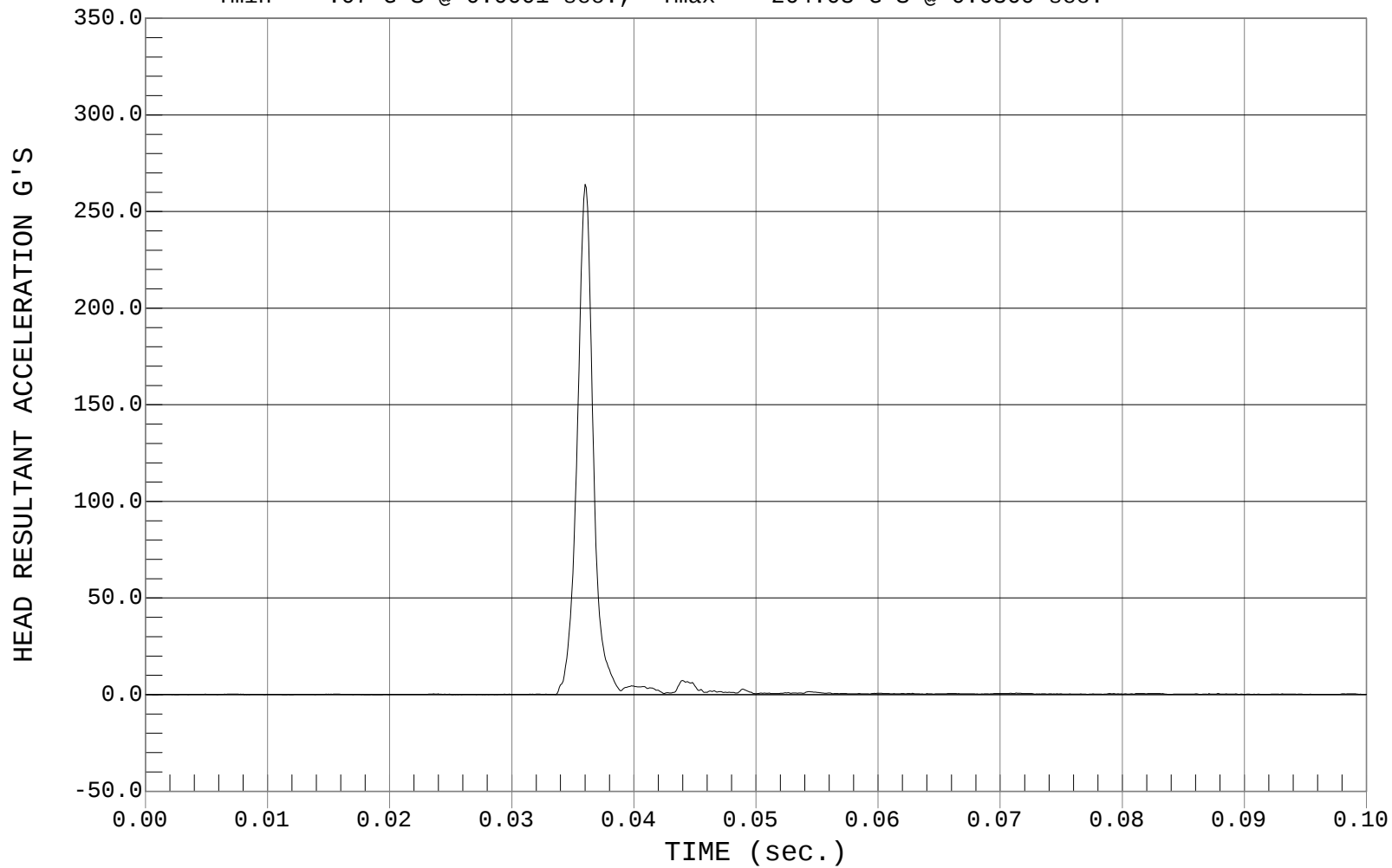
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #144c

Test Date: 06-14-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01871AV.A01

Ymin = .07 G'S @ 0.0001 sec., Ymax = 264.03 G'S @ 0.0360 sec.





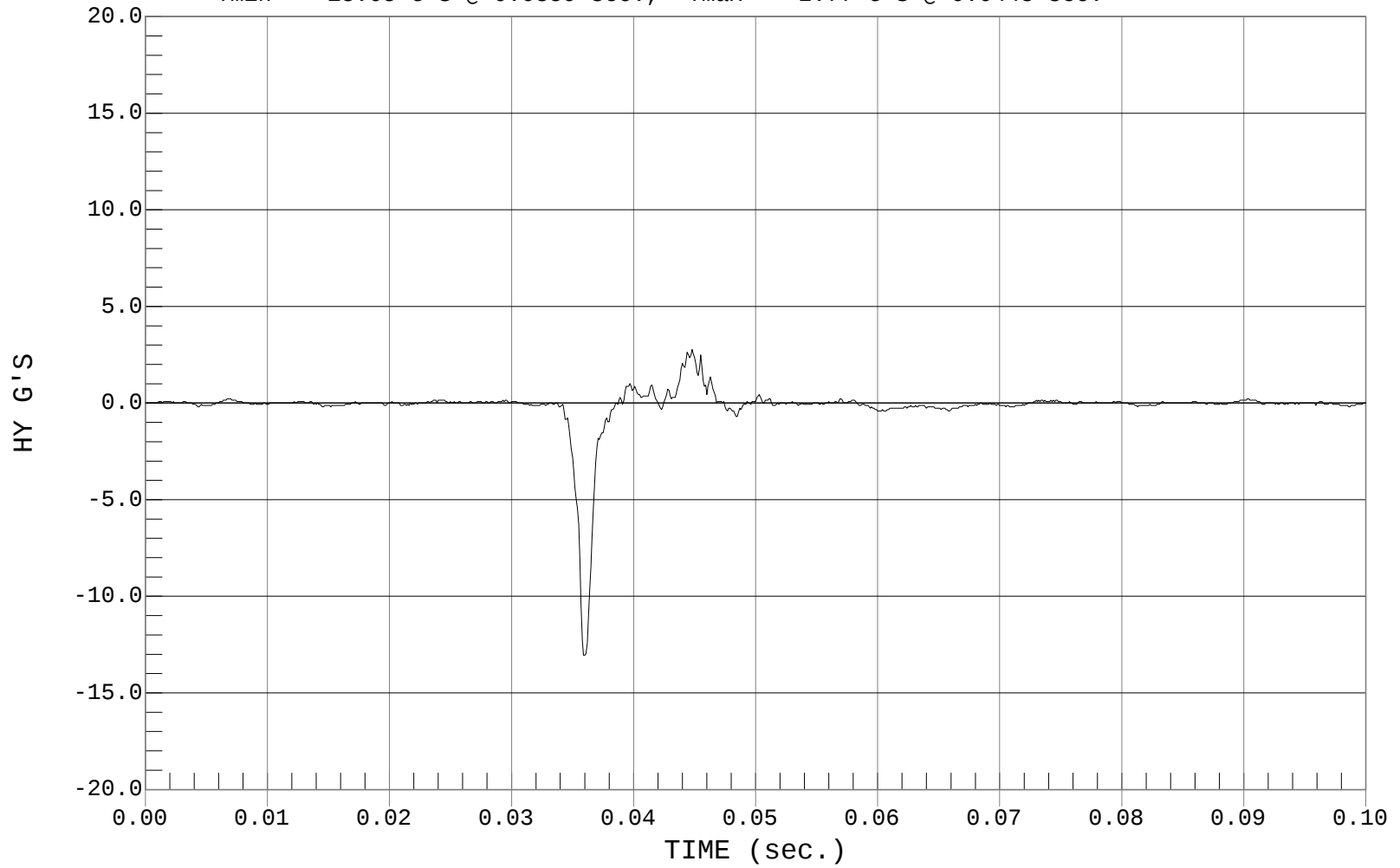
PEAK LATERAL ACCELARATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #144c

Test Date: 06-14-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HY, D01871AR.A02

Ymin = -13.05 G'S @ 0.0359 sec., Ymax = 2.77 G'S @ 0.0448 sec.



MGA RESEARCH CORPORATION
NECK FLEXION TEST
HYBRID III 6 Year Old

Date: 6/14/01

Dummy Serial Number: 144c

Test Number: D01872

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		20.6-22.2	21.5
Relative Humidity (%)		10 – 70	57
Pendulum Speed		4.83 - 5.07 m/sec	5.01
Pendulum Deceleration	10 msec	1.2 -1.6 m/sec	1.6
	20 msec	2.4 -3.4 m/sec	3.1
	30 msec	3.8 -5.0 m/sec	4.4
D Plane Rotation	Max	74 – 92 deg	87
Moment About Occipital Condyle within Deflection Corridor	Max	27-33 Nm	29
Positive Moment Time Curve Decay to 5 Nm		103 – 123 ms from Time Zero	113

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



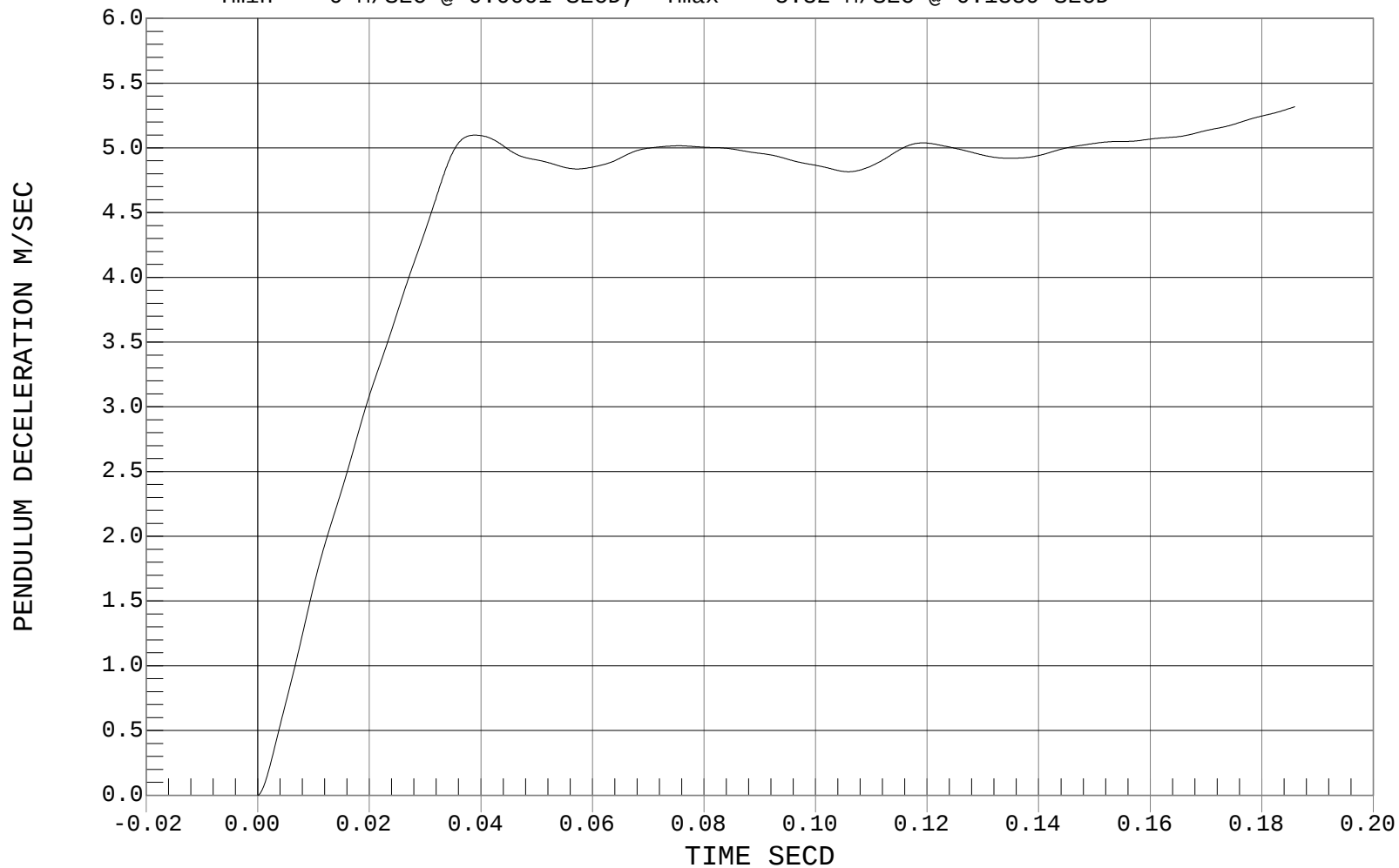
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #144c

Test Date: 06-14-01
Speed: 16.44 FT/SEC, 5.01 M/SEC

— 1 PENDULUM DECELERATION, D01872AI.V04

Ymin = 0 M/SEC @ 0.0001 SECD, Ymax = 5.32 M/SEC @ 0.1859 SECD





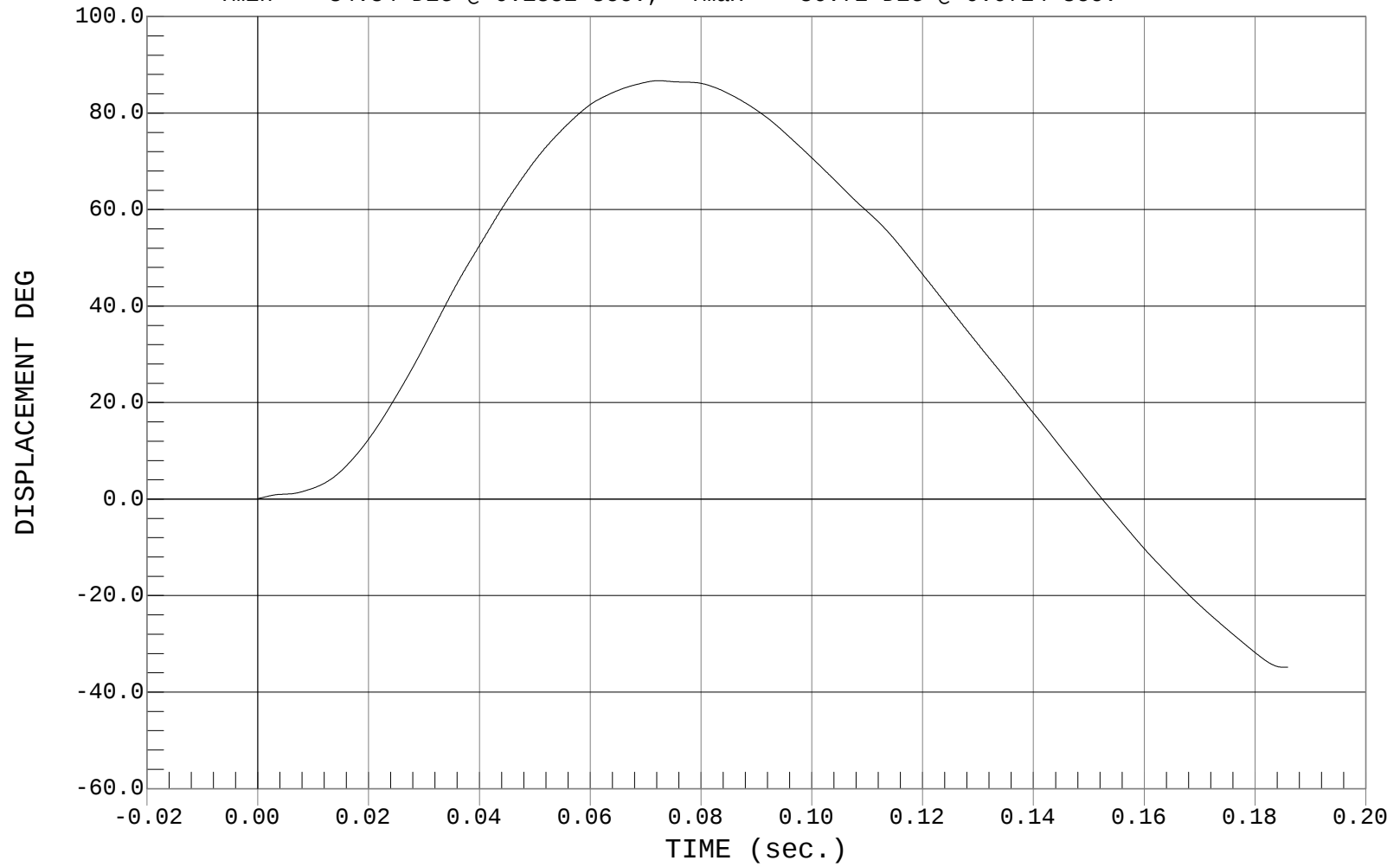
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #144c

Test Date: 06-14-01
Speed: 16.44 FT/SEC, 5.01 M/SEC

— 1 DISPLACEMENT, D01872DU.D05

Ymin = -34.84 DEG @ 0.1852 sec., Ymax = 86.72 DEG @ 0.0724 sec.





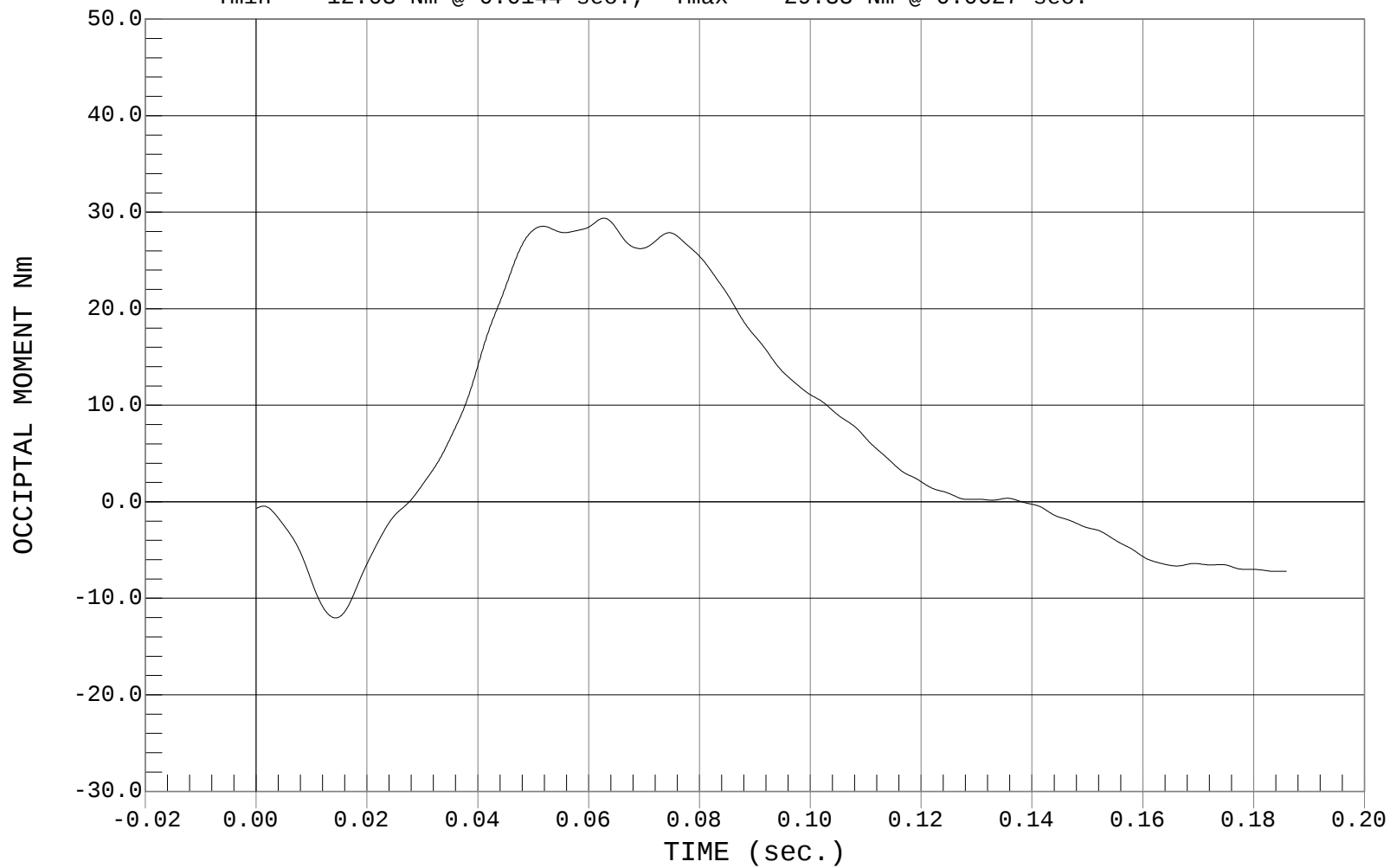
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Flexion
Component: Dummy #144c

Test Date: 06-14-01
Speed: 16.44 FT/SEC, 5.01 M/SEC

— 1 OCCIPTAL MOMENT, D01872NK.MNT

Ymin = -12.03 Nm @ 0.0144 sec., Ymax = 29.38 Nm @ 0.0627 sec.



MGA RESEARCH CORPORATION
NECK EXTENSION TEST
HYBRID III 6 Year Old

Date: 6/14/01

Dummy Serial Number: 144c

Test Number: D01873

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		20.6 – 22.2	21.5
Relative Humidity (%)		10 – 70	57
Pendulum Speed		4.18 – 4.42	4.34
Pendulum Deceleration	10 msec	1.0 – 1.4 m/sec	1.3
	20 msec	2.2 – 3.0 m/sec	2.5
	30 msec	3.2 – 4.2 m/sec	3.6
D Plane Rotation	Max	85 – 103 deg.	87
Moment About Occipital Condyle in Deflection Corridor	Min	-19- -24 Nm	-23
Negative Moment Time Curve Decay to –5 Nm		123 – 147 ms	127

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

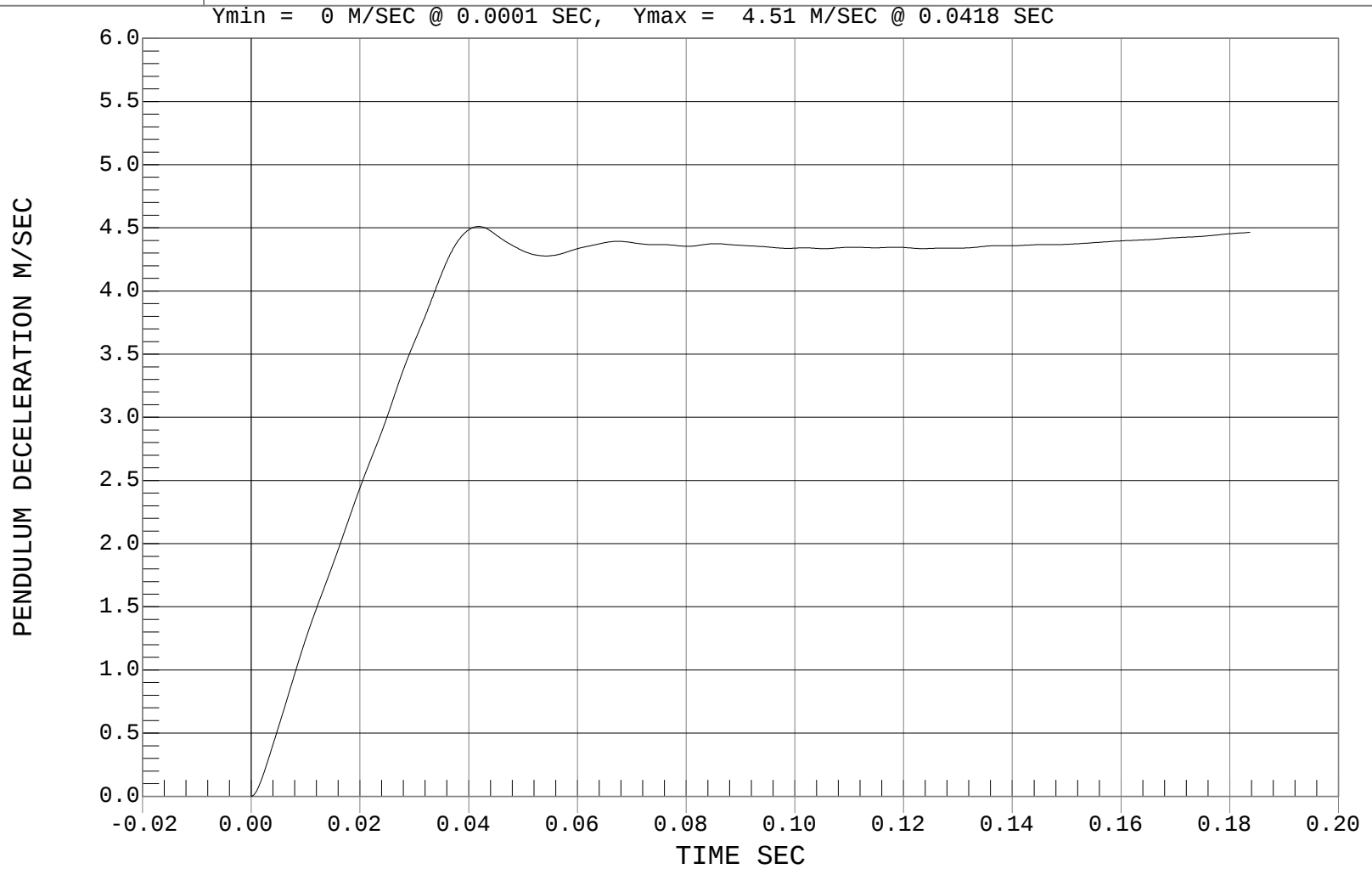


PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #144c

Test Date: 06-14-01
Speed: 14.25 FT/SEC, 4.34 M/SEC

— 1 PENDULUM DECELERATION, D01873AI.V04





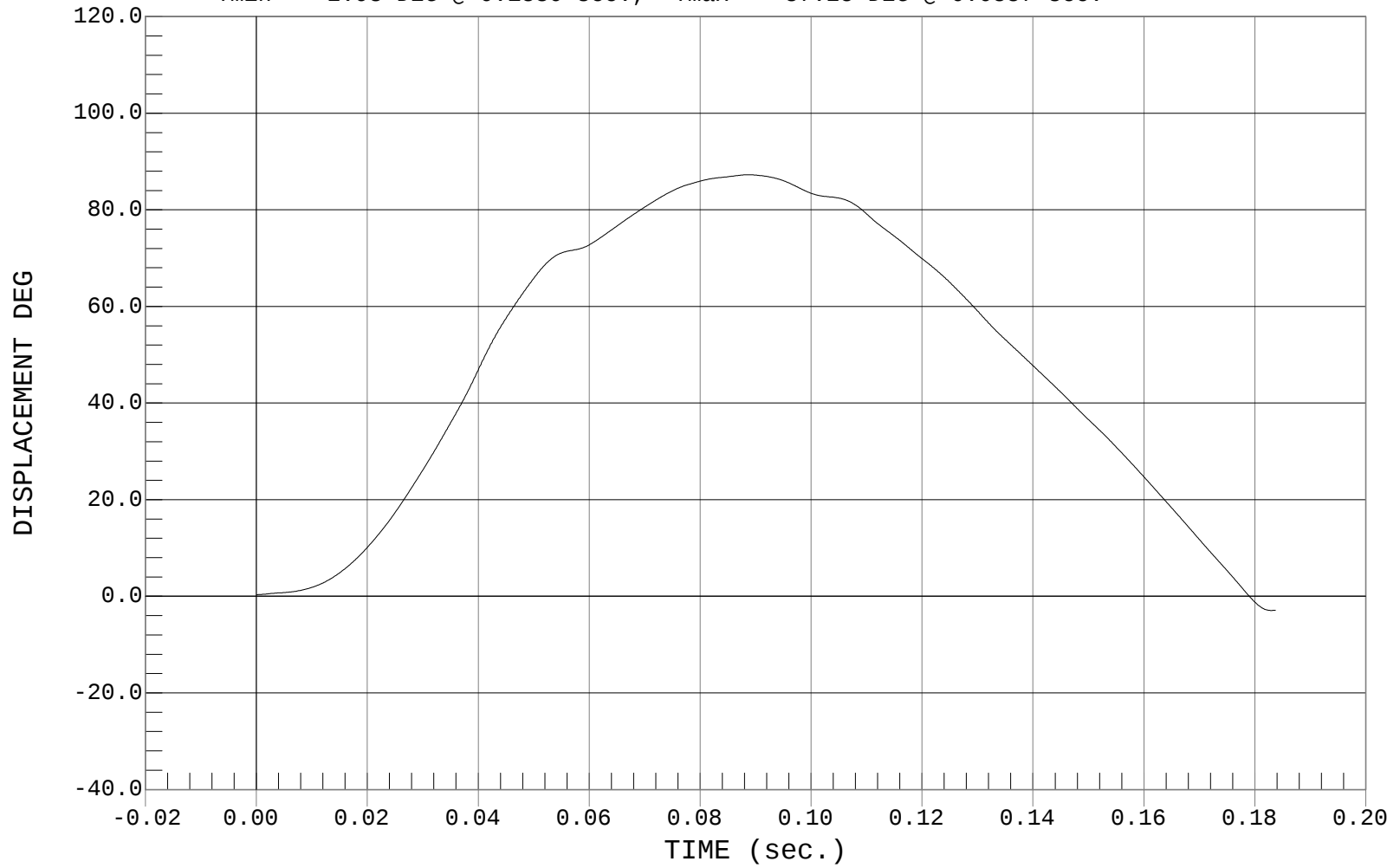
NECK ROTATION

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #144c

Test Date: 06-14-01
Speed: 14.25 FT/SEC, 4.34 M/SEC

— 1 DISPLACEMENT, D01873DU.D05

Ymin = -2.93 DEG @ 0.1830 sec., Ymax = 87.25 DEG @ 0.0887 sec.





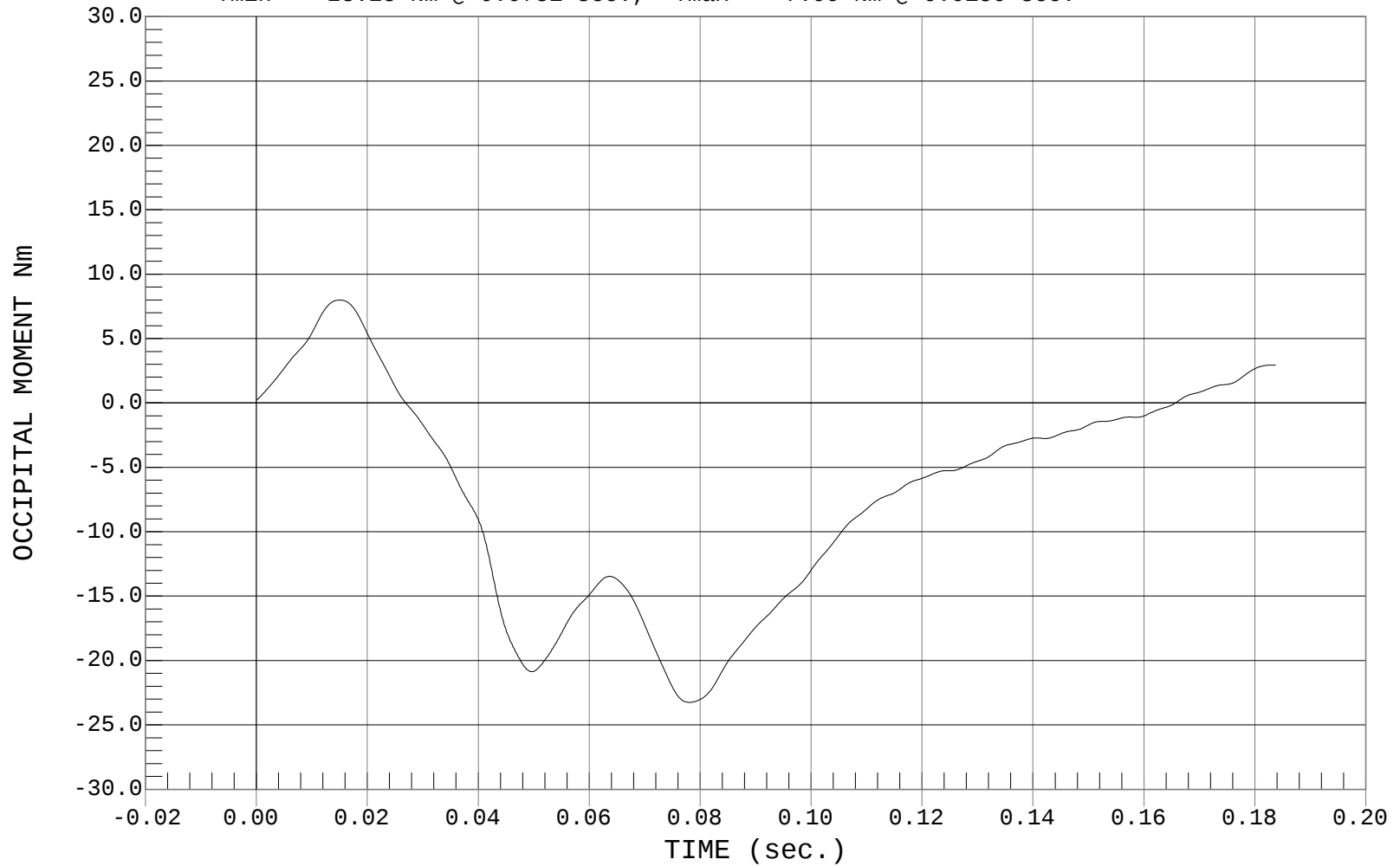
OCCIPITAL MOMENT

Test Desc.: Dummy Calibration - Neck Extension
Component: Dummy #144c

Test Date: 06-14-01
Speed: 14.25 FT/SEC, 4.34 M/SEC

— 1 OCCIPITAL MOMENT, D01873NK.MNT

Ymin = -23.25 Nm @ 0.0781 sec., Ymax = 7.99 Nm @ 0.0150 sec.



MGA RESEARCH CORPORATION
THORAX IMPACT TEST
HYBRID III 6 Year Old

Date: 6/18/01

Dummy Serial Number: 144c

Test Number: D01874

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	20.6 – 22.2	21.6
Relative Humidity (%)	10 – 70	56
Probe Speed	6.59 – 6.83 m/sec	6.69
Peak Deflection	38 – 46 mm	40
Peak Resistive Force within Deflection Corridor	1.15 – 1.38 kN	1.19
Internal Hysteresis	65 – 85%	76
Peak Force 12.5 mm – 38 mm	< 105% of Peak Force in Deflection Corridor	102

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



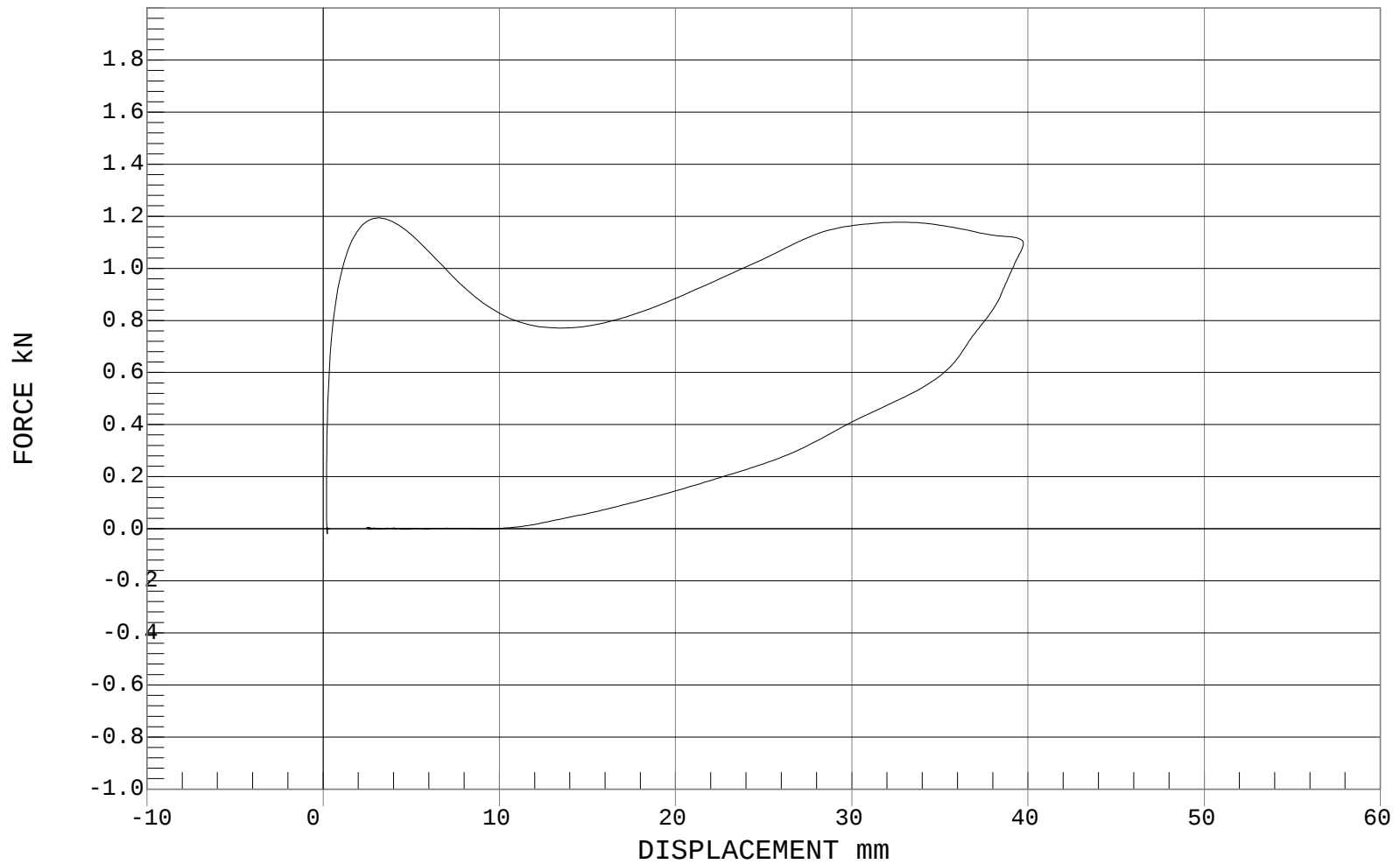
THORAX IMPACT

Test Desc.: Dummy Calibration - Chest Impact
Component: Dummy #144c

Test Date: 06-18-01
Speed: 21.95 FT/SEC, 6.69 M/SEC

— 1 FORCE, D01874CH.FVD

Ymin = -.02 kN @ 0.2328 mm, Ymax = 1.19 kN @ 3.1743 mm



MGA RESEARCH CORPORATION
TORSO FLEXION TEST
HYBRID III 6 Year Old

Date: 6/14/01

Dummy Serial Number: 144c

Test Number: D01877

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.6
Relative Humidity (%)	10 – 70	54
Initial Angle (deg)	0 – 22°	8
Return Angle (deg)	0 – 8°	6
Force @ 45°	147 – 200 N	173

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

MGA RESEARCH CORPORATION
RIGHT KNEE IMPACT TEST
HYBRID III 6 Year Old

Date: 6/14/01

Dummy Serial Number: 144c

Test Number: D01875

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.6
Relative Humidity (%)	10 – 70	54
Probe Speed	2.07 – 2.13 m/sec	2.12
Maximum Force	2.0 – 3.0 kN	2.2

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



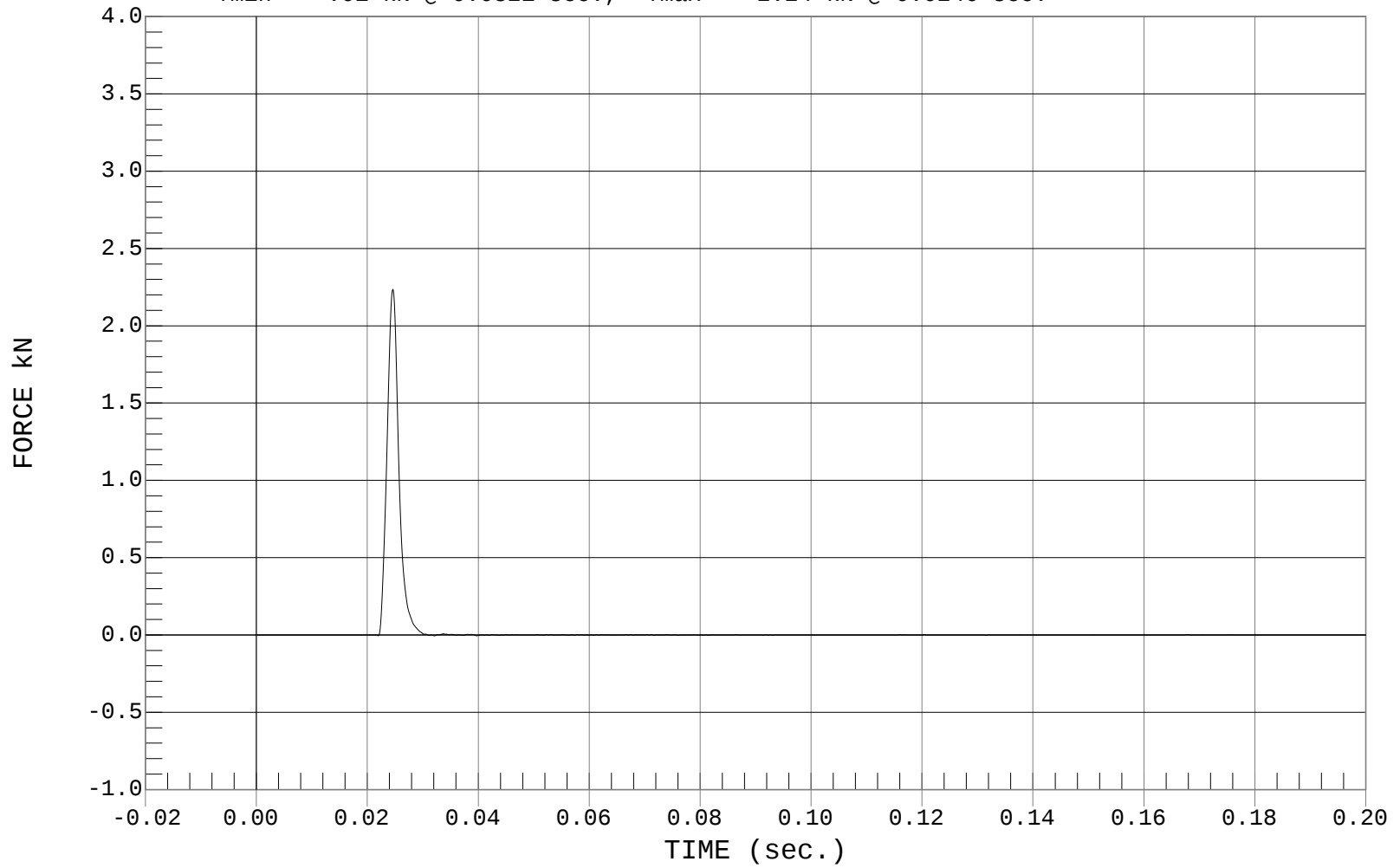
RIGHT KNEE IMPACT

Test Desc.: Dummy Calibration - Right Knee Impact
Component: Dummy #144C

Test Date: 06-14-01
Speed: 6.95 FT/SEC, 2.12 M/SEC

— 1 FORCE, D01875FF.F09

Ymin = -.01 kN @ 0.0321 sec., Ymax = 2.24 kN @ 0.0246 sec.



MGA RESEARCH CORPORATION
LEFT KNEE IMPACT TEST
HYBRID III 6 Year Old

Date: 6/14/01

Dummy Serial Number: 144c

Test Number: D01876

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.6	21.6
Relative Humidity (%)	10 – 70	57
Probe Speed	2.07 – 2.13 m/sec	2.12
Maximum Force	2.0 – 3.0 kN	2.3

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



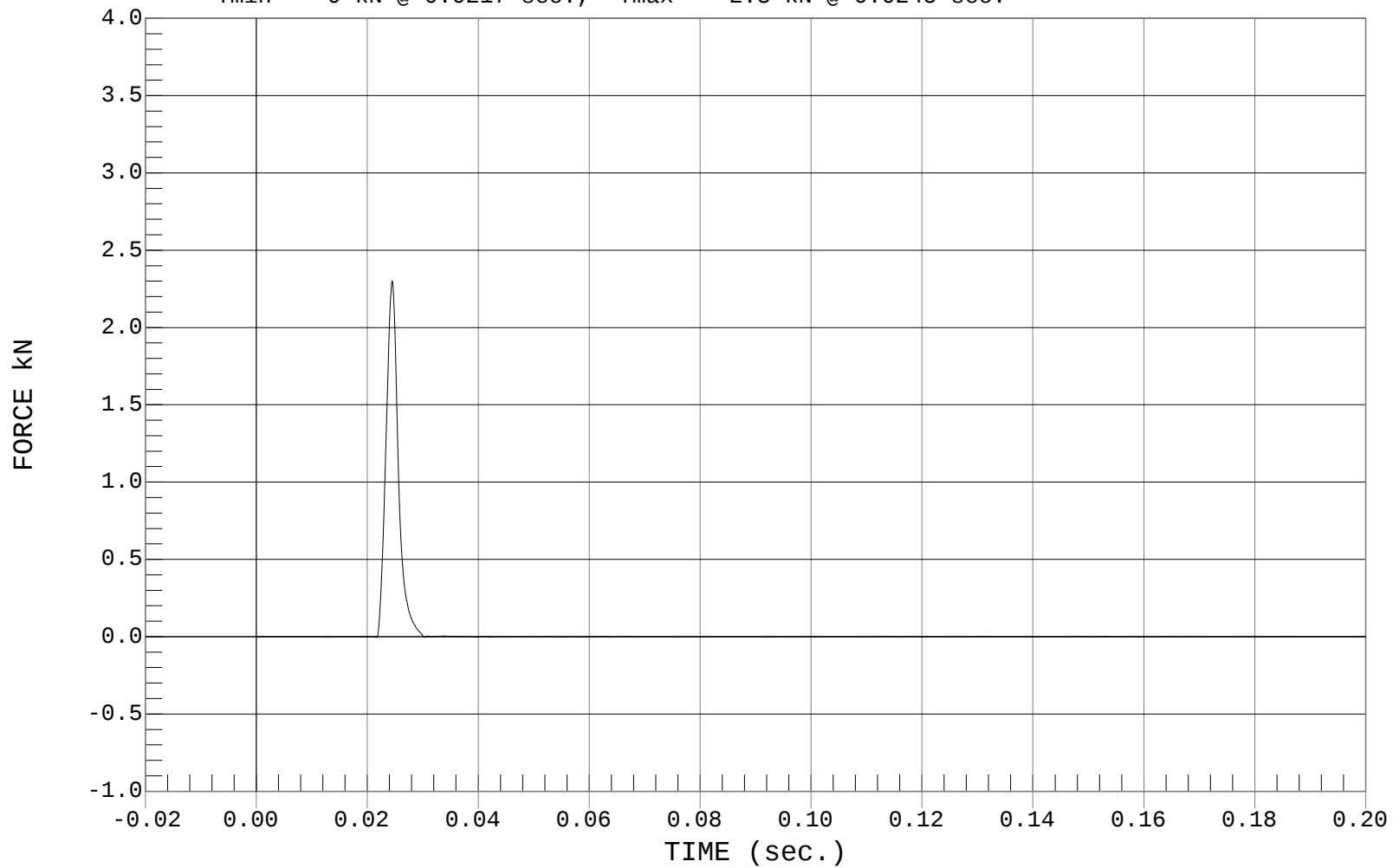
LEFT KNEE IMPACT

Test Desc.: Dummy Calibration - Left Knee Impact
Component: Dummy #144C

Test Date: 06-14-01
Speed: 6.96 FT/SEC, 2.12 M/SEC

— 1 FORCE, D01876FF.F09

Ymin = 0 kN @ 0.0217 sec., Ymax = 2.3 kN @ 0.0245 sec.



DUMMY INSPECTION CHECKLIST

Type: Hybrid III 6 Year Old

Dummy Serial Number: 144c

Inspected By: Tim Michnay

Date: 6/18/01

<u>Part</u>	<u>Items Checked</u>	<u>Comments</u>
Skin	visual inspection	OK
Head	visual, ballast, accelerometer mount	OK
Neck	visual, cable torque, nodding blocks	OK
Clavicles	visual, bumpers, range of motion	OK
Arms/Hands	visual, bumpers, range of motion	OK
Spine box	visual, ballast, weldment, accelerometer mount	OK
Rib cage	visual, measure, stiffeners	OK
Sternum	visual, bumpers	OK
Lumbar spine	visual, cable torque	OK
Abdomen	visual	OK
Pelvis	visual, palpate, accelerometer mount	OK
Upper legs	visual, load cell bolts	OK
Knees	visual, stops, inserts, sliders	OK
Lower legs	visual, range of motion	OK
Ankles	visual, range of motion	OK
Feet	visual, range of motion	OK
Joints	1 to 2 g range	OK
Other		

Notes (include component/problem/action/reason):

CERTIFICATION DATA

Dummy Serial Number: 009

Calibration Test Results Summary

Dummy Serial Number: 009

Post-Test Calibration

Head Drop Test:	The head passed all drop test requirements.
Neck Pendulum Test:	The neck passed all impact test requirements.
Shoulder Impact Test:	The shoulder passed all impact test requirements.
Rib Tests:	All ribs passed all impact test requirements.
Abdomen Test:	The abdomen passed all impact test requirements.
Lumbar Spine Test:	The lumbar spine passed all impact test requirements.
Pelvis Test:	The pelvis passed all impact test requirements.

MGA RESEARCH CORPORATION
HEAD DROP TEST
EUROSID 2 DUMMY

Date: 6/29/01

Dummy Serial Number: 009

Test Number: D01971

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	20.4
Relative Humidity (%)	10 – 70	54
Peak Resultant Acceleration	100 – 150 g's	138
Time of Max. Res. Acceleration		24.9 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



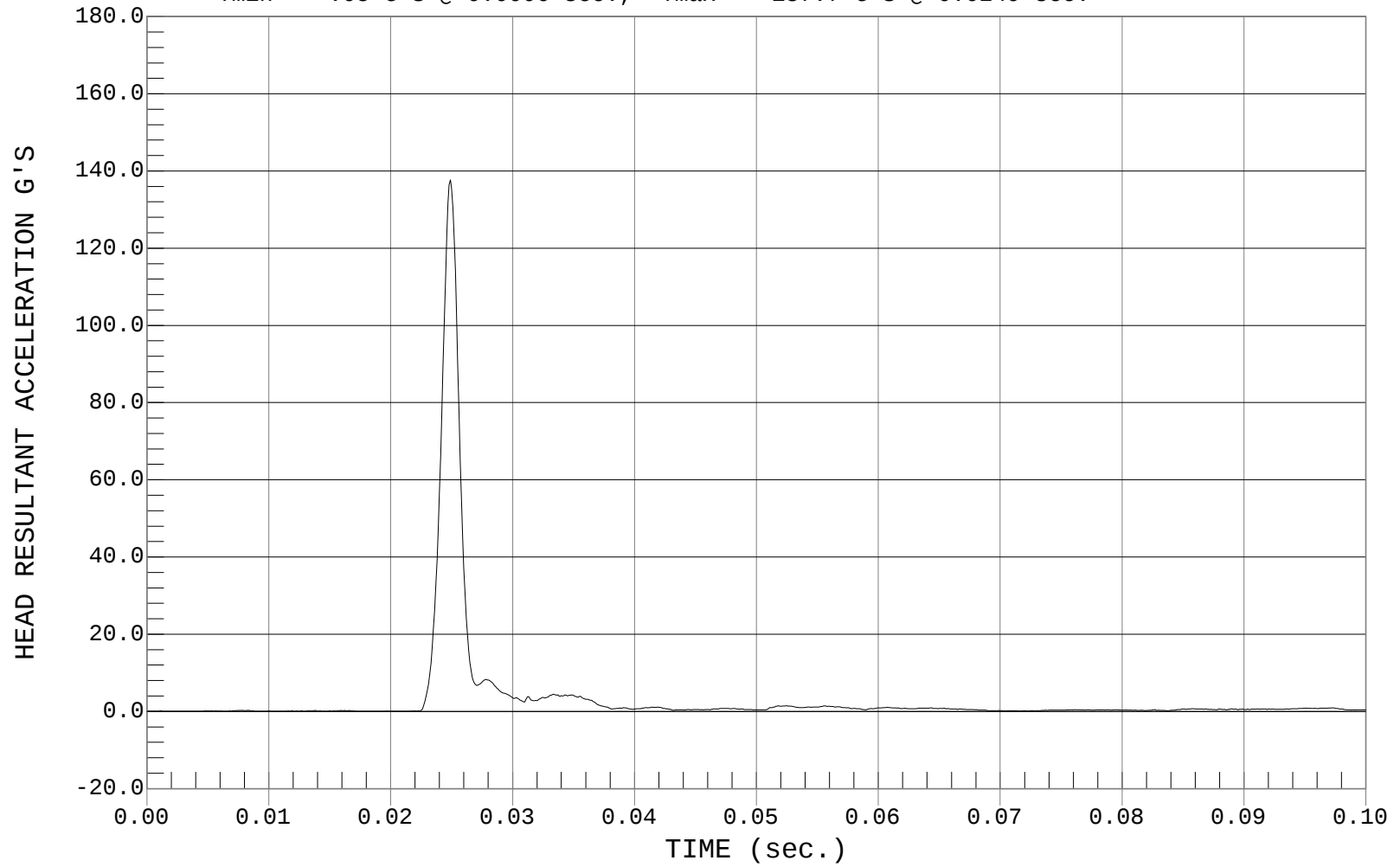
PEAK RESULTANT ACCELERATION

Test Desc.: Dummy Calibration - Head Drop
Component: Dummy #009

Test Date: 06-29-01
Speed: 0.00 FT/SEC, 0.00 M/SEC

— 1 HEAD RESULTANT ACCELERATION, D01971AV.A01

Ymin = .05 G'S @ 0.0006 sec., Ymax = 137.7 G'S @ 0.0249 sec.



MGA RESEARCH CORPORATION
NECK PENDULUM TEST
EUROSID 2 DUMMY

Date: 6/29/01

Dummy Serial Number: 009

Test Number: D01972

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	20.3
Relative Humidity (%)		10 – 70	56
Pendulum Speed		3.3 - 3.5	3.4
Pendulum Deceleration	3 msec	$\dot{v}$.25 - $\dot{v}$.53 m/sec	-.33
	8 msec	$\dot{v}$ 1.59 - $\dot{v}$ 2.04 m/sec	-1.77
	14 msec	$\dot{v}$ 3.20 - $\dot{v}$ 3.85 m/sec	-3.41
Maximum Flexion Angle		49.0 – 59.0 deg	56.0
Time of Max. Flexion Angle		54.0 – 66.0 ms	55.9
Maximum Angle Theta (A)		32.0 – 37.0 deg	34.6
Time of Max. Theta (A)		53.0 – 63.0 ms	55.8
Maximum Angle Theta (B)		29.78 – 32.28 deg	30.21
Time of Max. Theta (B)		54.0 – 64.0 ms	56.7

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



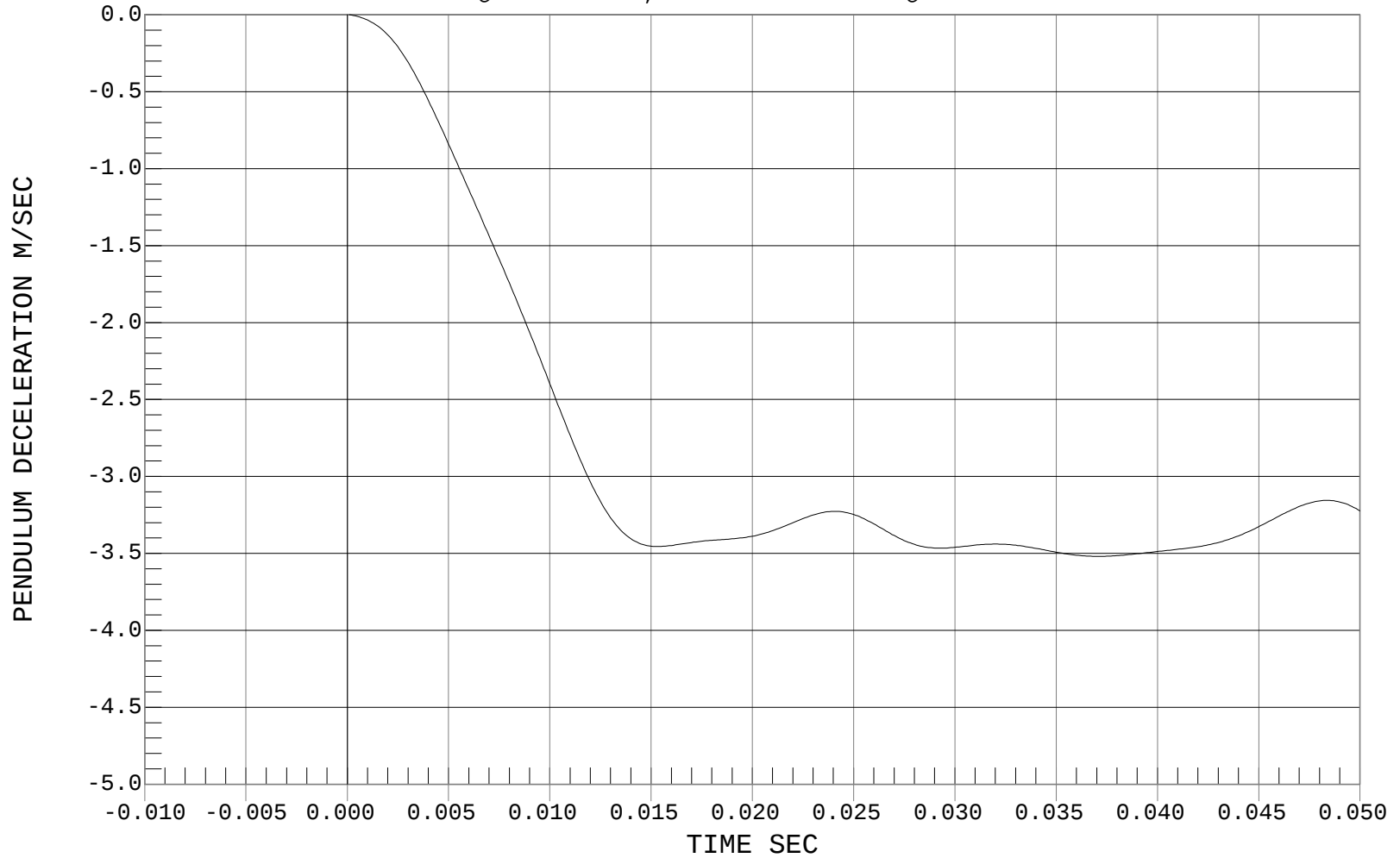
PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-29-01
Speed: 11.06 FT/SEC, 3.37 M/SEC

— 1 PENDULUM DECELERATION, D01972AI.V04

Ymin = -4.59 M/SEC @ 0.01909 SEC, Ymax = 0 M/SEC @ 0.0001 SEC





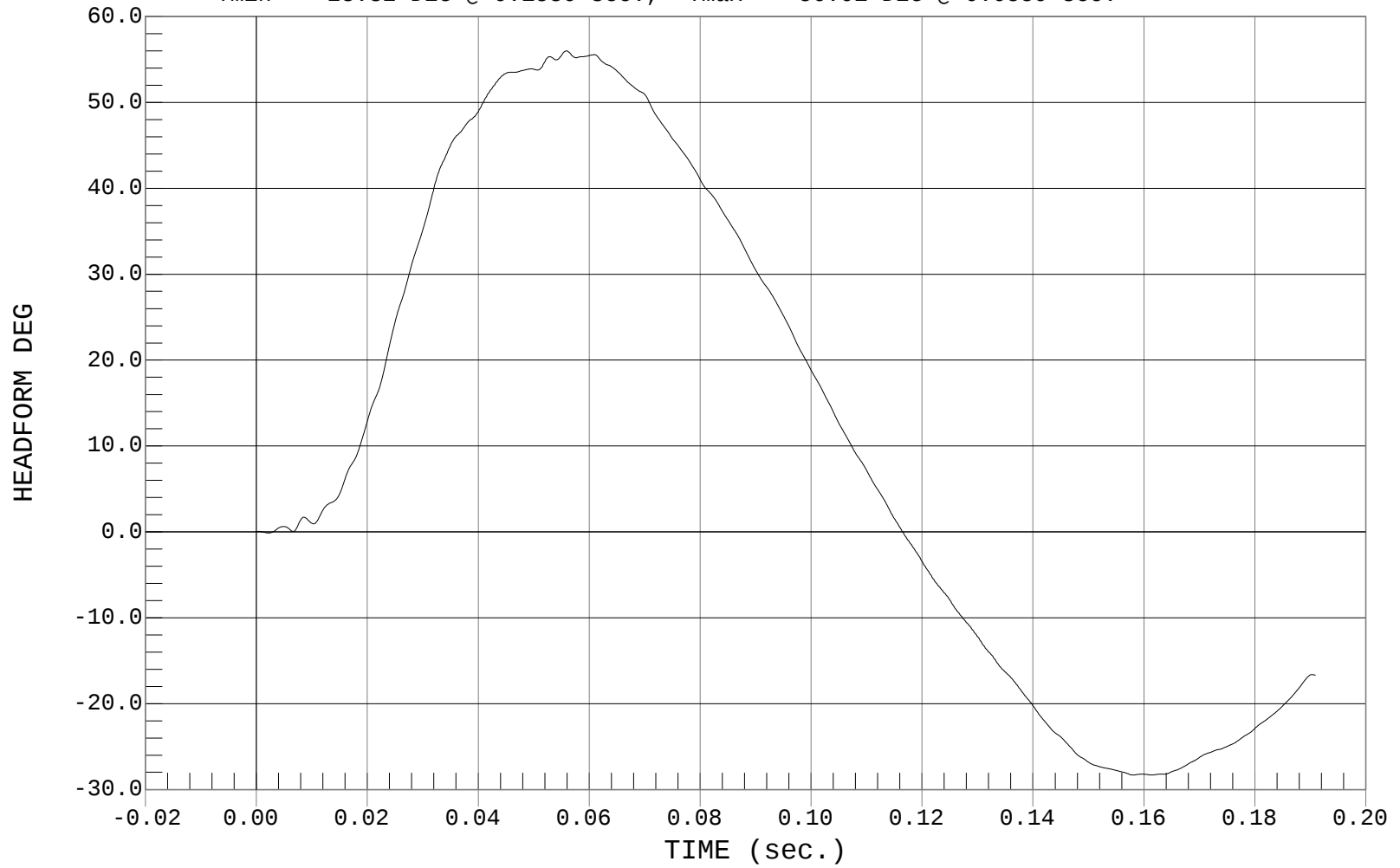
FLEXION ANGLE

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-29-01
Speed: 11.06 FT/SEC, 3.37 M/SEC

— 1 HEADFORM, D01972DT.D08

Ymin = -28.32 DEG @ 0.1580 sec., Ymax = 56.01 DEG @ 0.0559 sec.





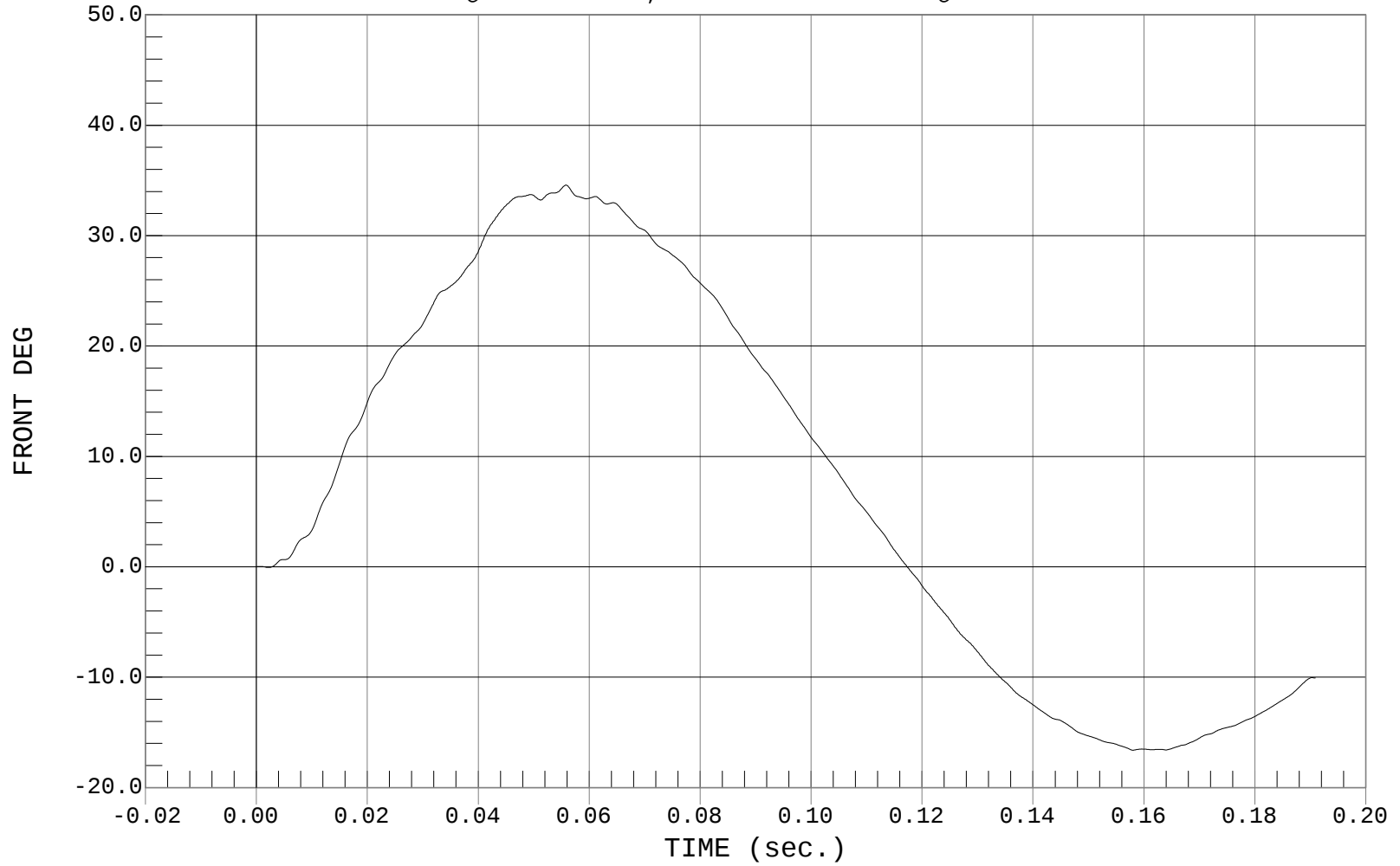
THETA A

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-29-01
Speed: 11.06 FT/SEC, 3.37 M/SEC

— 1 FRONT, D01972DT.D05

Ymin = -16.61 DEG @ 0.1580 sec., Ymax = 34.58 DEG @ 0.0558 sec.





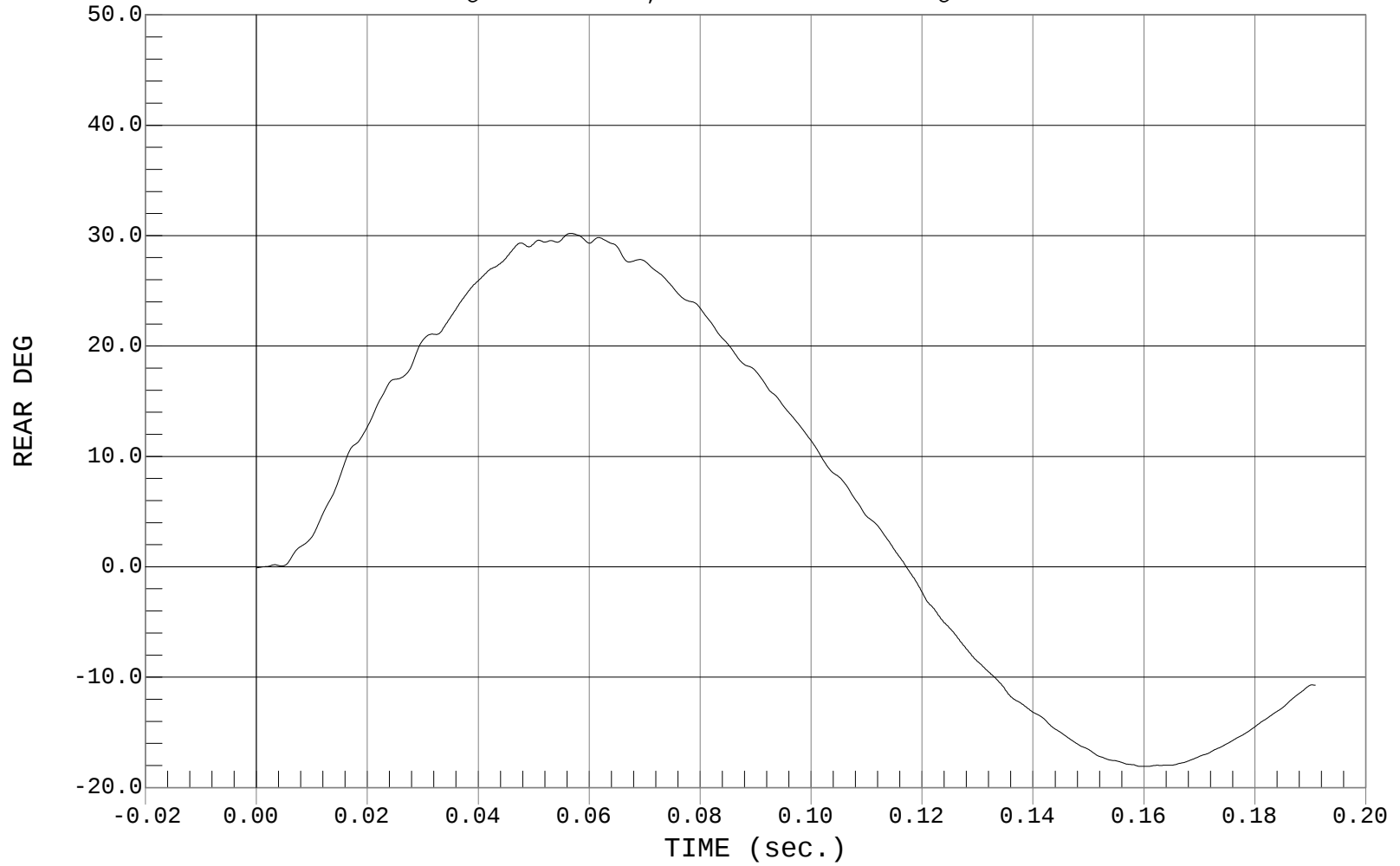
THETA B

Test Desc.: Dummy Calibration - Neck Bending
Component: Dummy #009

Test Date: 06-29-01
Speed: 11.06 FT/SEC, 3.37 M/SEC

— 1 REAR, D01972DT.D06

Ymin = -18.09 DEG @ 0.1606 sec., Ymax = 30.21 DEG @ 0.0567 sec.



MGA RESEARCH CORPORATION
SHOULDER IMPACT TEST
EUROSID 2 DUMMY

Date: 6/28/01

Dummy Serial Number: 009

Test Number: D01973

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.3
Relative Humidity (%)	10 – 70	51
Pendulum Speed	4.2 – 4.4 m/s	4.3
Max. Resultant Acceleration	7.5 – 10.5 g's	9.2
Time of Max. Pendulum Acceleration		25.0 msec

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



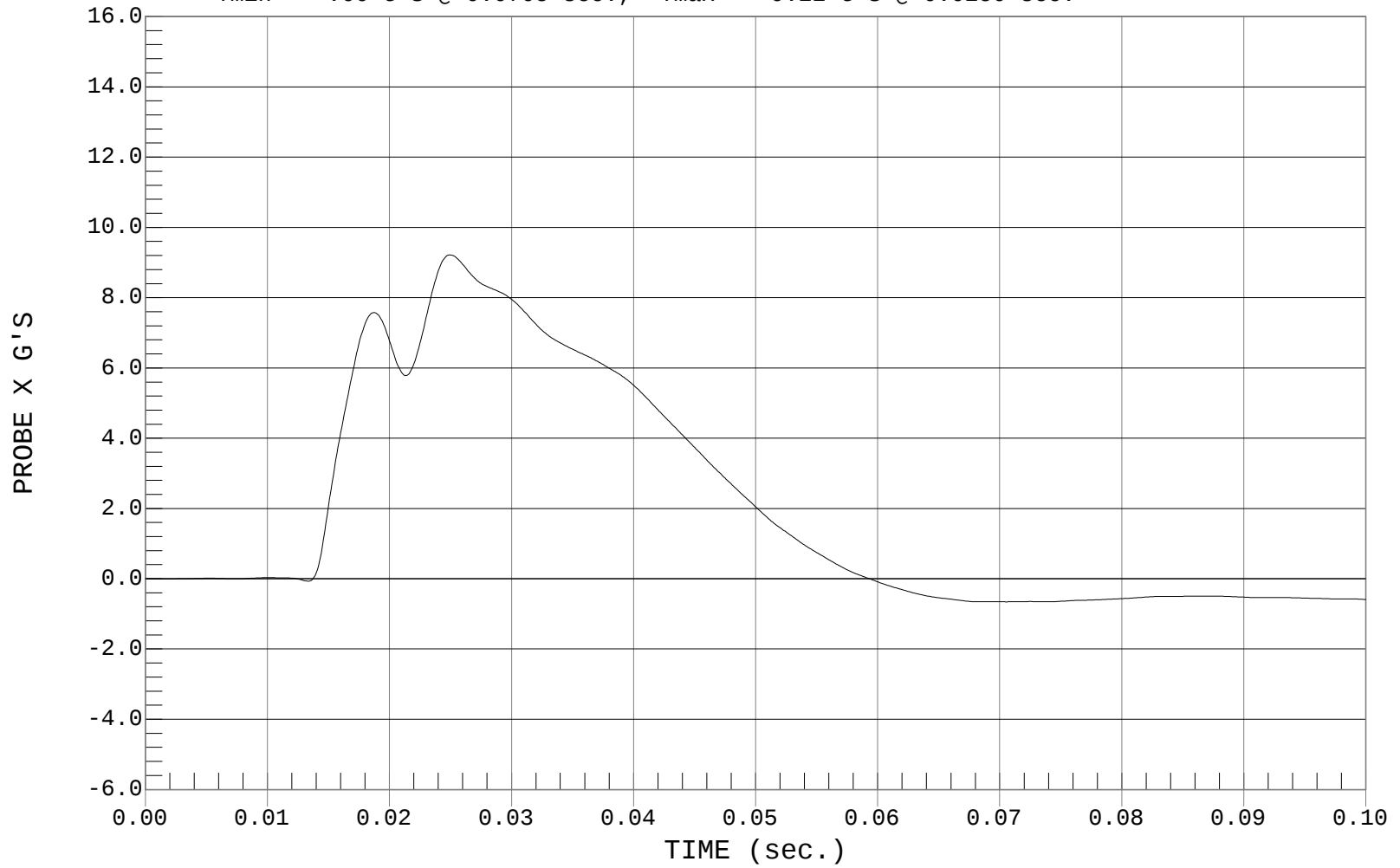
SHOULDER ACCELERATION

Test Desc.: Dummy Calibration - Shoulder Impact
Component: Dummy #009

Test Date: 06-28-01
Speed: 14.00 FT/SEC, 4.27 M/SEC

— 1 PROBE X, D01973AF.A01

Ymin = -0.66 G'S @ 0.0705 sec., Ymax = 9.22 G'S @ 0.0250 sec.



MGA RESEARCH CORPORATION
UPPER/MIDDLE/LOWER RIB TESTS
SIDE IMPACT DUMMY (SID)

Date: 6/29/01
Dummy Serial Number: 009
Test Number: D01974/5/6

UPPER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	23.6
Displacement at 3 m/s	36.0 – 40.0 mm	37.6
Displacement at 4 m/s	46.0 – 51.0 mm	50.1

MIDDLE RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	25.5
Displacement at 3 m/s	36.0 – 40.0 mm	38.2
Displacement at 4 m/s	46.0 – 51.0 mm	50.1

LOWER RIB - TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18.9 – 25.5	21.0
Relative Humidity (%)	10 – 70	49
Displacement at 2 m/s	23.5 – 27.5 mm	24.5
Displacement at 3 m/s	36.0 – 40.0 mm	37.9
Displacement at 4 m/s	46.0 – 51.0 mm	49.8

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



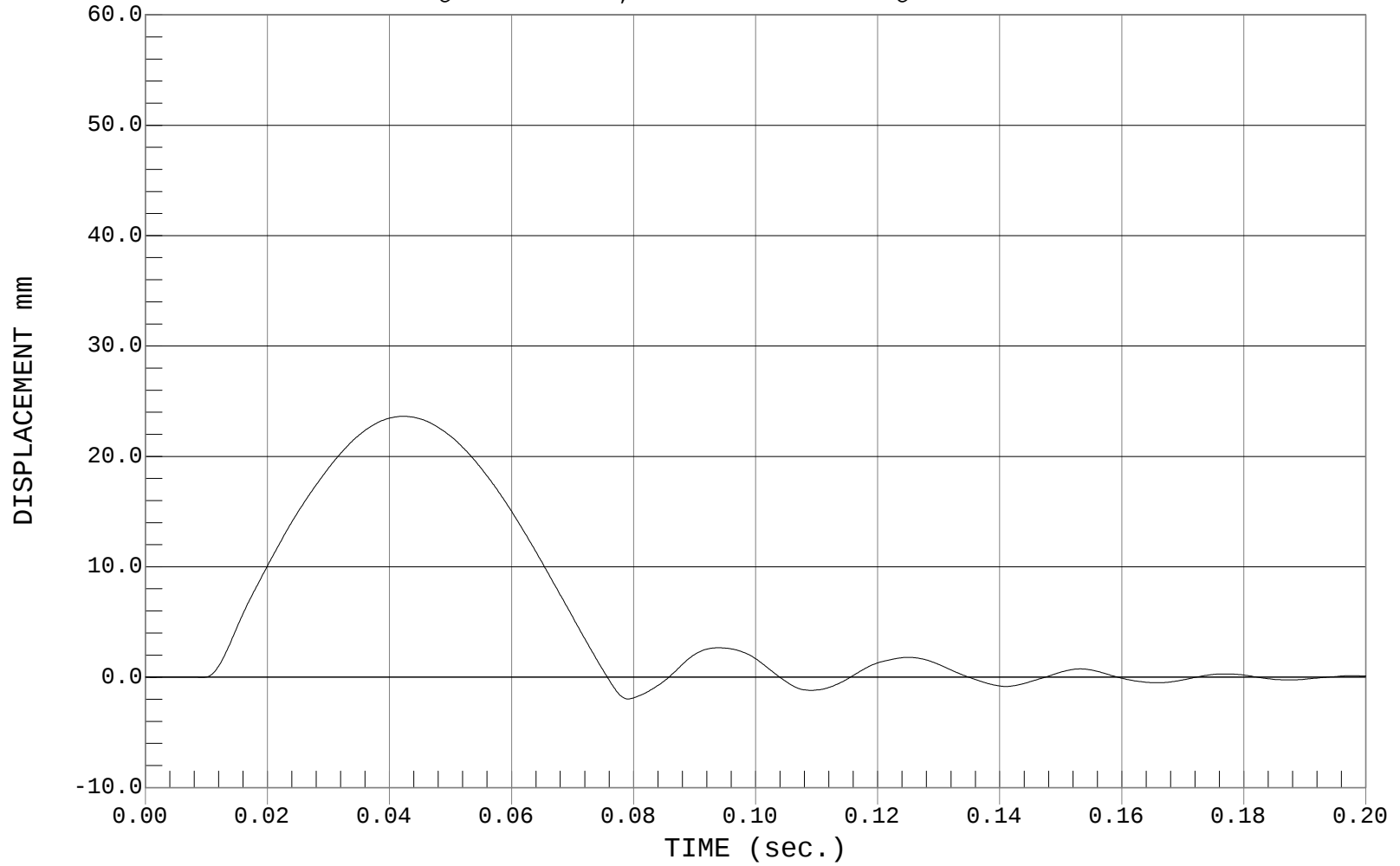
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01974DF.D05

Ymin = -1.97 mm @ 0.0791 sec., Ymax = 23.63 mm @ 0.0422 sec.





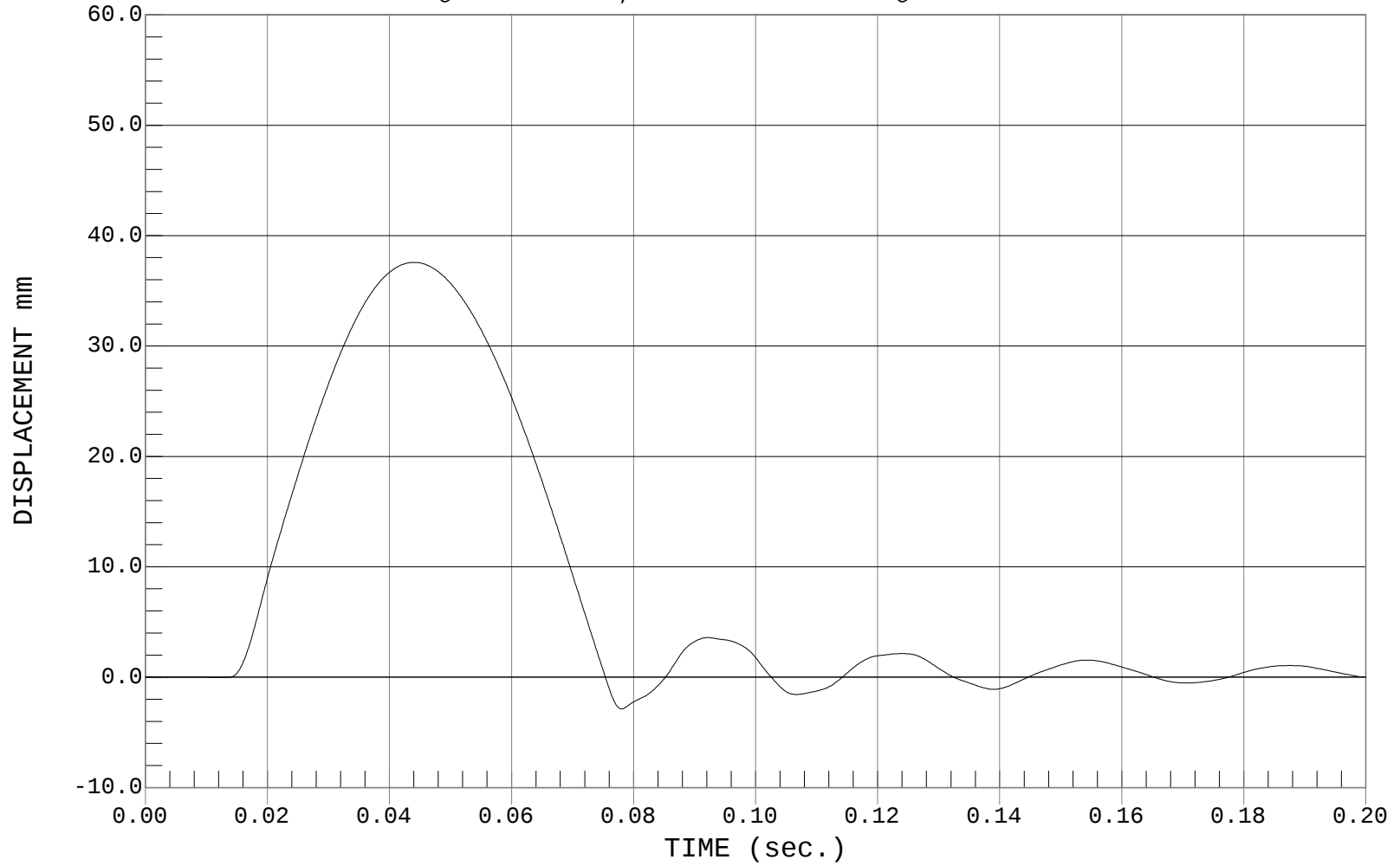
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01974DF.D06

Ymin = -2.87 mm @ 0.0780 sec., Ymax = 37.58 mm @ 0.0440 sec.





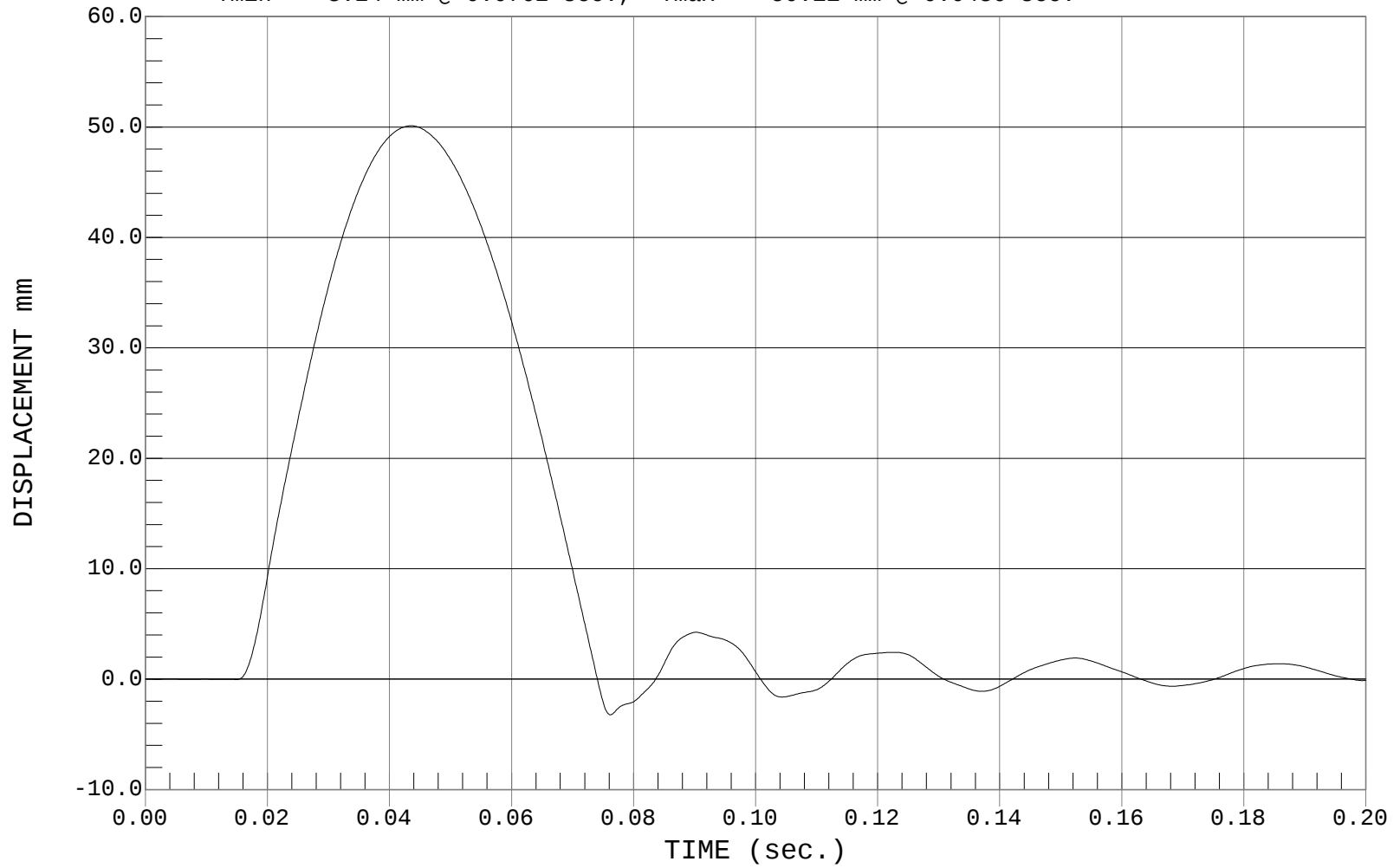
UPPER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01974DF.D07

Ymin = -3.24 mm @ 0.0762 sec., Ymax = 50.11 mm @ 0.0436 sec.





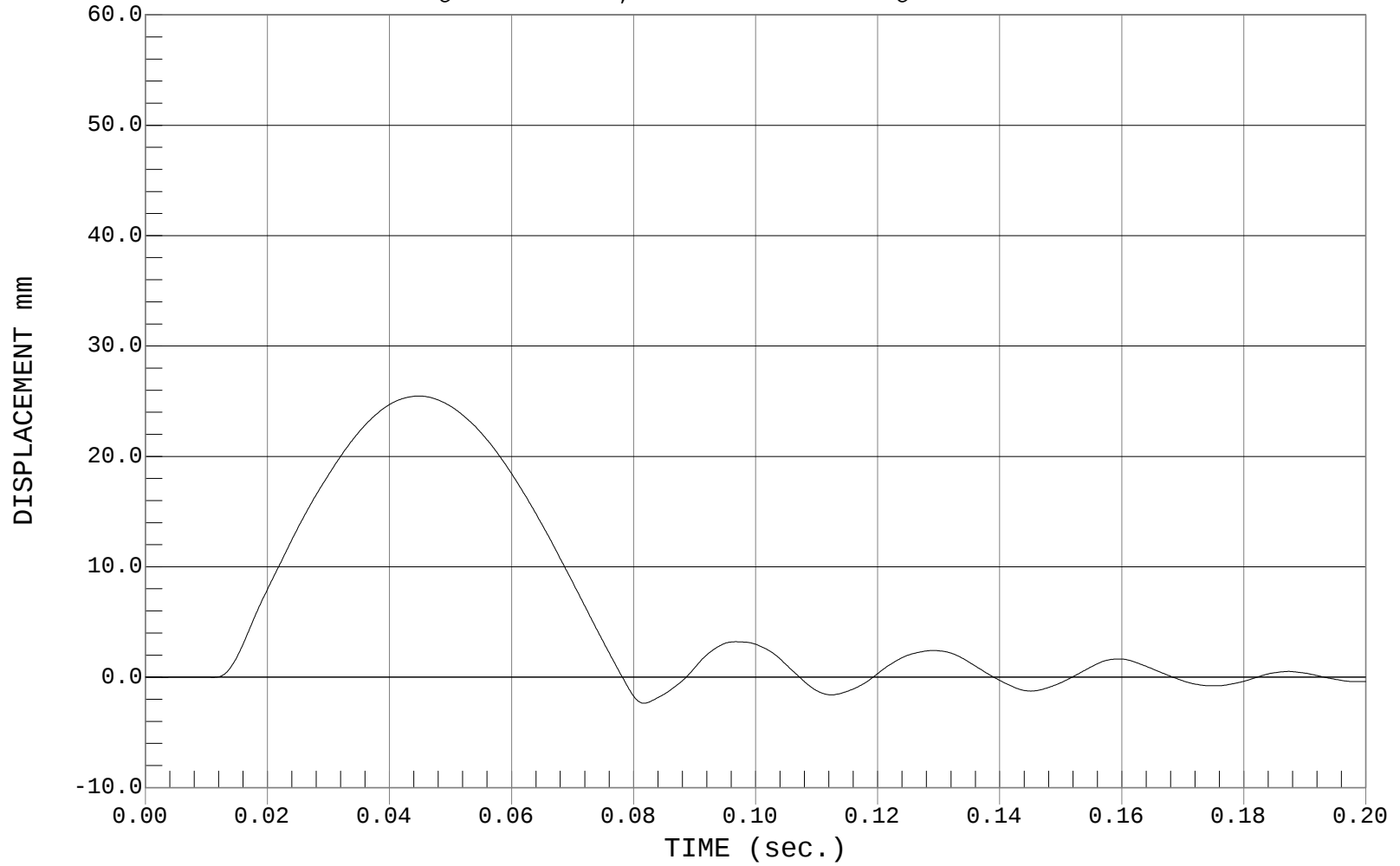
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01975DF.D05

Ymin = -2.36 mm @ 0.0817 sec., Ymax = 25.46 mm @ 0.0448 sec.





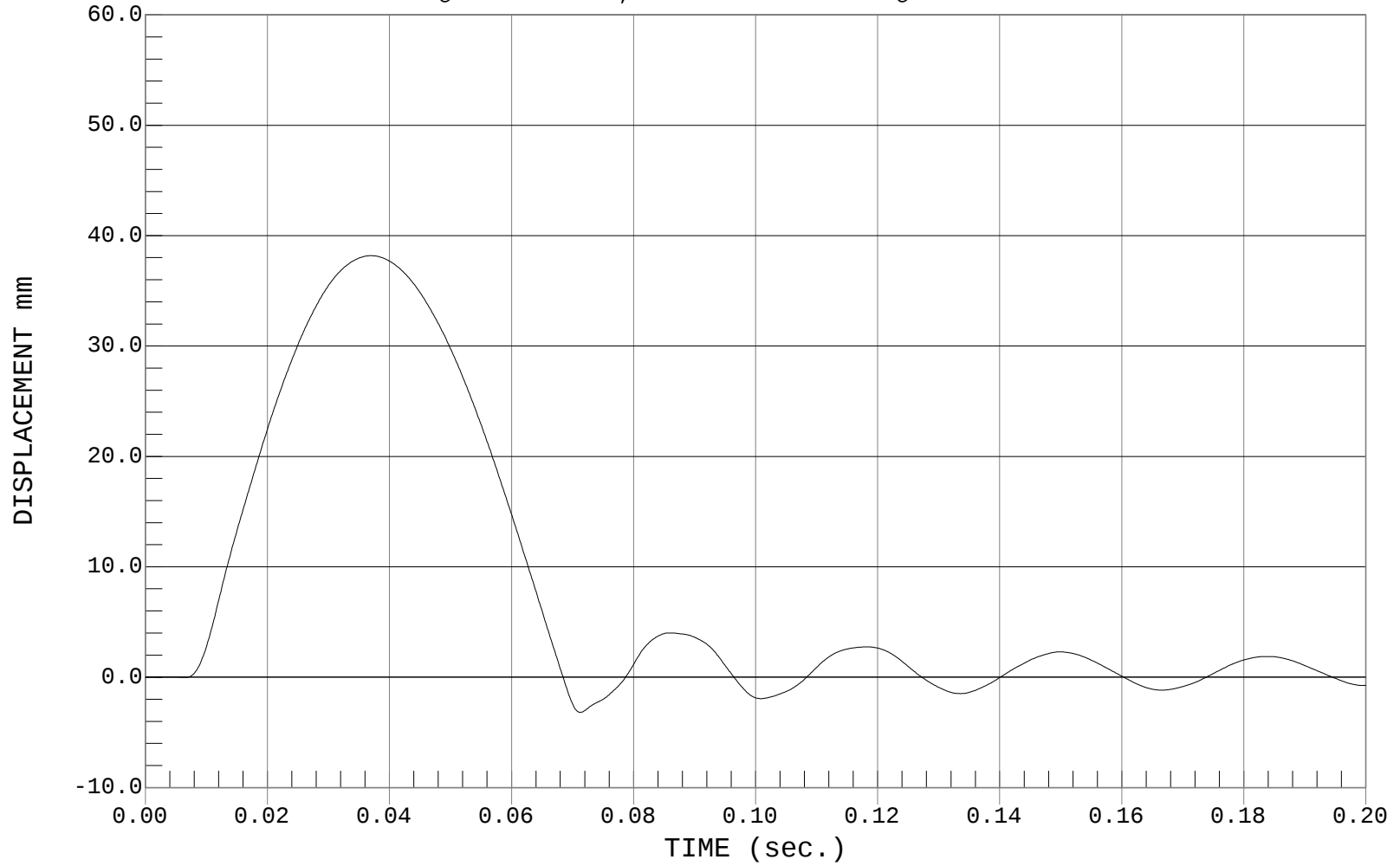
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01975DF.D06

Ymin = -3.19 mm @ 0.0713 sec., Ymax = 38.18 mm @ 0.0370 sec.





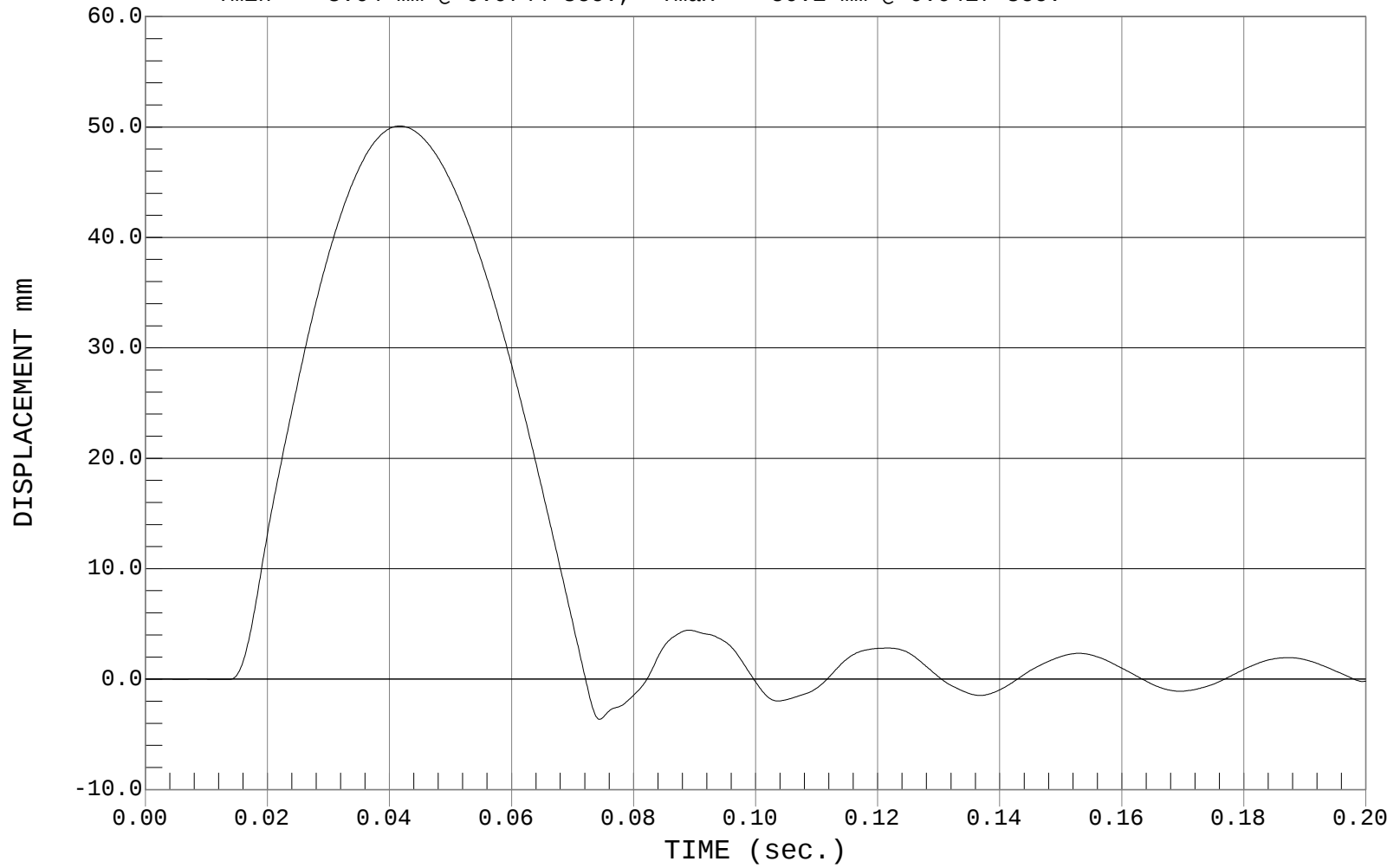
MIDDLE RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01975DF.D07

Ymin = -3.64 mm @ 0.0744 sec., Ymax = 50.1 mm @ 0.0417 sec.





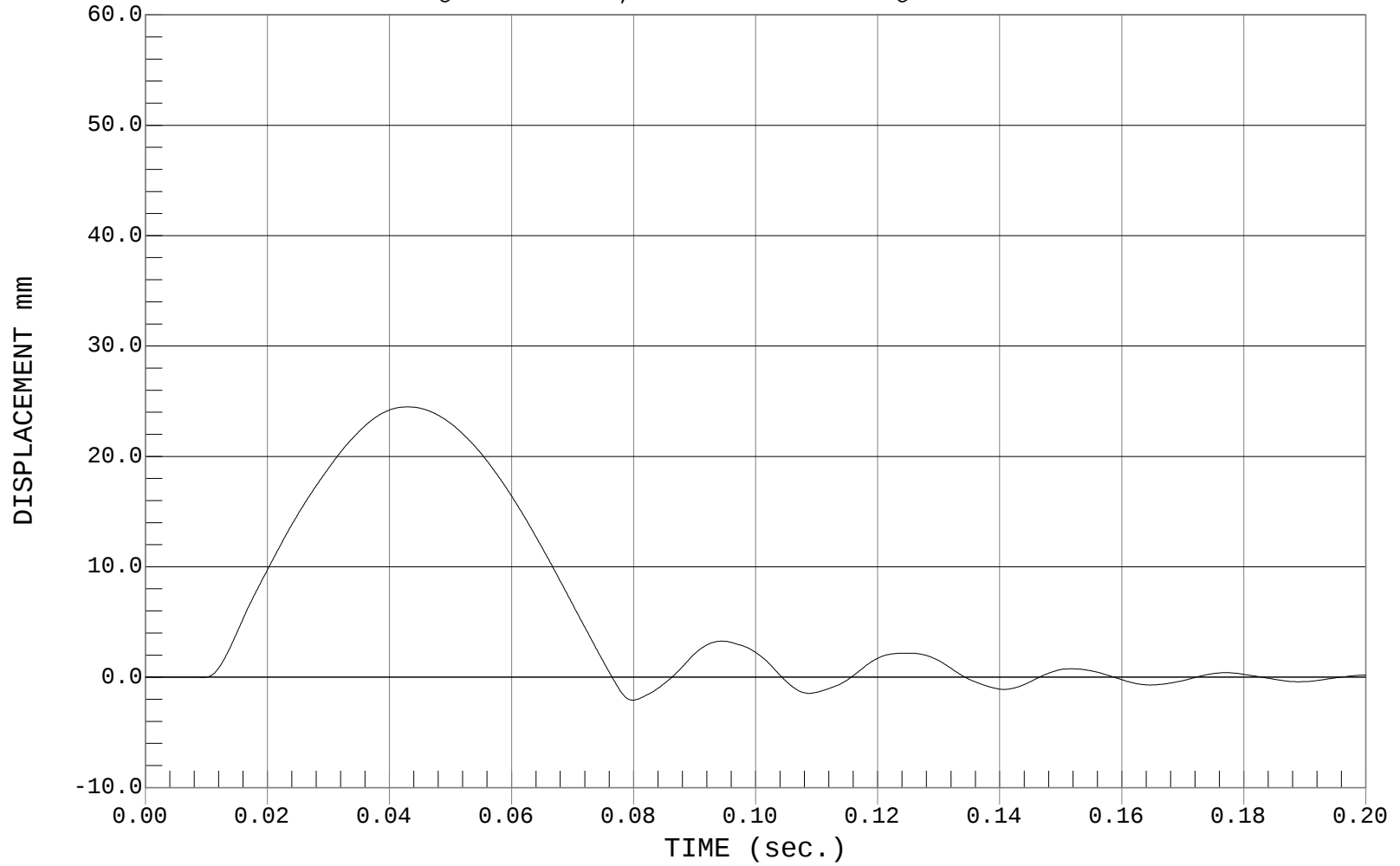
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 6.56 FT/SEC, 2.00 M/SEC

— 1 DISPLACEMENT, D01976DF.D05

Ymin = -2.09 mm @ 0.0799 sec., Ymax = 24.48 mm @ 0.0429 sec.





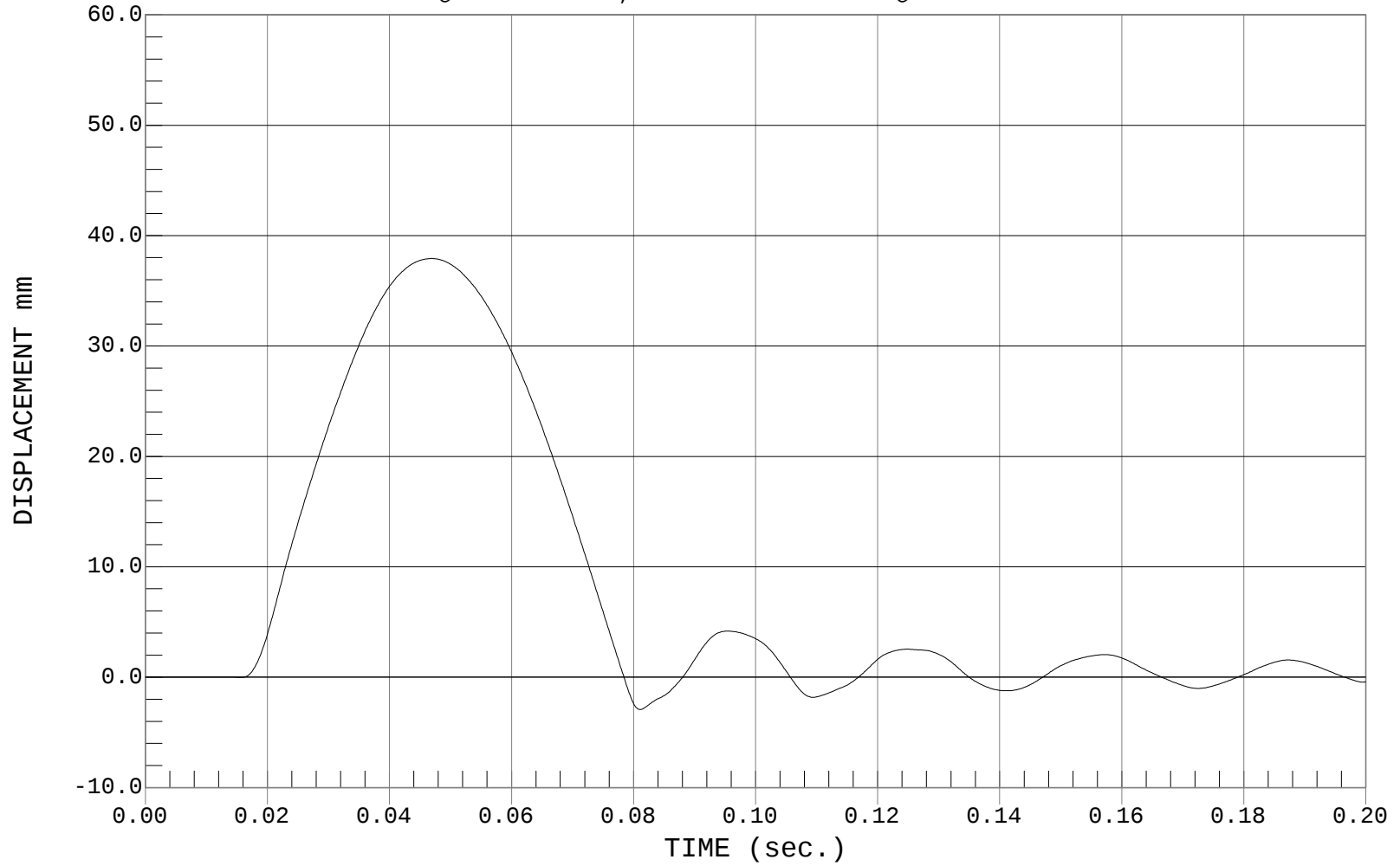
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 9.84 FT/SEC, 3.00 M/SEC

— 1 DISPLACEMENT, D01976DF.D06

Ymin = -2.93 mm @ 0.0811 sec., Ymax = 37.93 mm @ 0.0469 sec.





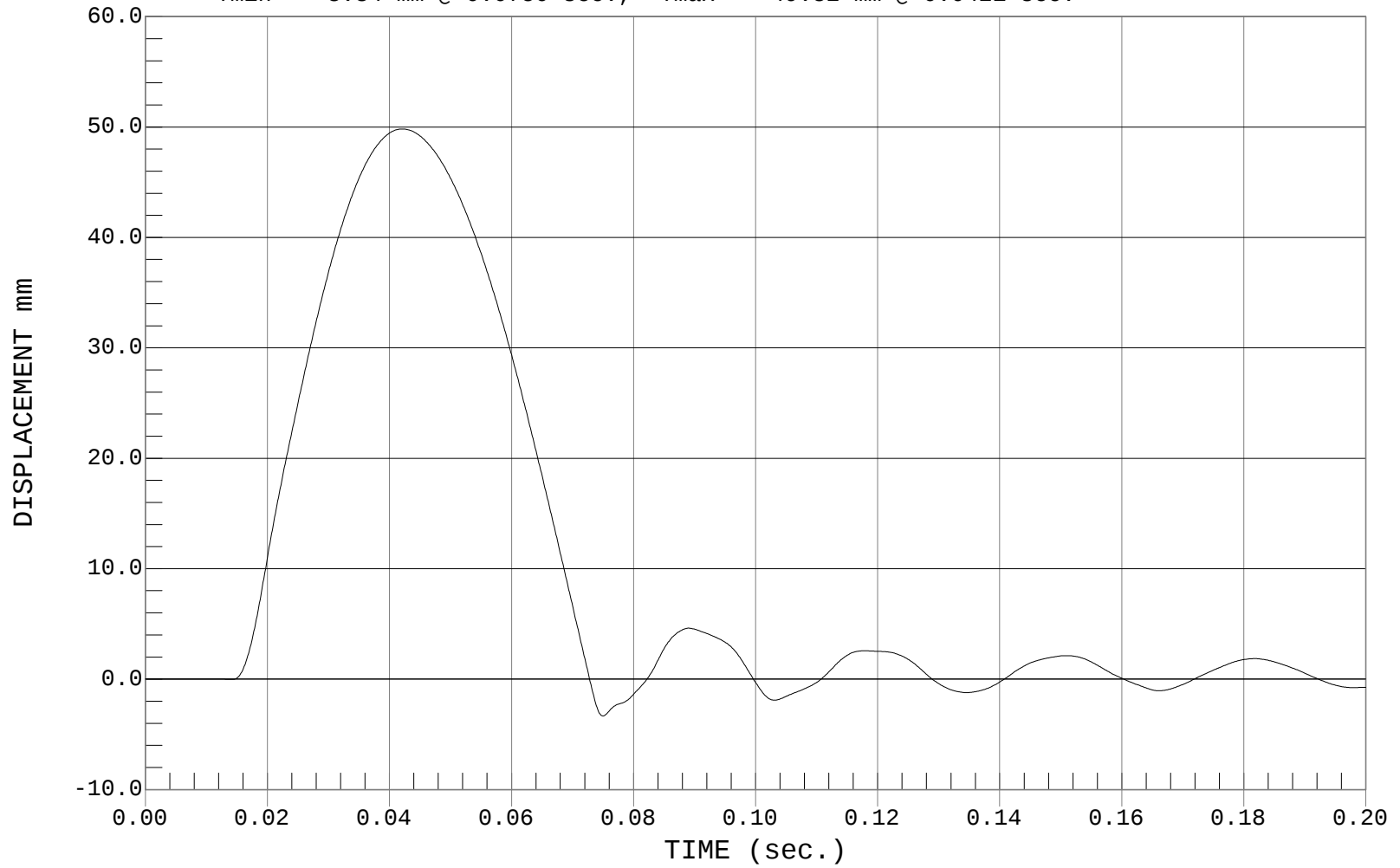
LOWER RIB DISPLACEMENT

Test Desc.: Dummy Calibration - Rib Module
Component: Dummy #009

Test Date: 06-29-01
Speed: 13.12 FT/SEC, 4.00 M/SEC

— 1 DISPLACEMENT, D01976DF.D07

Ymin = -3.34 mm @ 0.0750 sec., Ymax = 49.82 mm @ 0.0421 sec.



MGA RESEARCH CORPORATION
ABDOMEN TEST
EUROSID 2 DUMMY

Date: 6/28/01

Dummy Serial Number: 009

Test Number: D01977

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.4
Relative Humidity (%)	10 – 70	50
Probe Speed (m/s)	3.90 – 4.10	4.02
Maximum Impact Force	4.00 – 4.80 kN	4.79
Time of Maximum Force	10.60 – 13.00 ms	11.50
Maximum Total Abdomen Force	2.20 – 2.70 kN	2.35
Time of Max. Total Force	10.00 – 12.30 ms	11.20

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



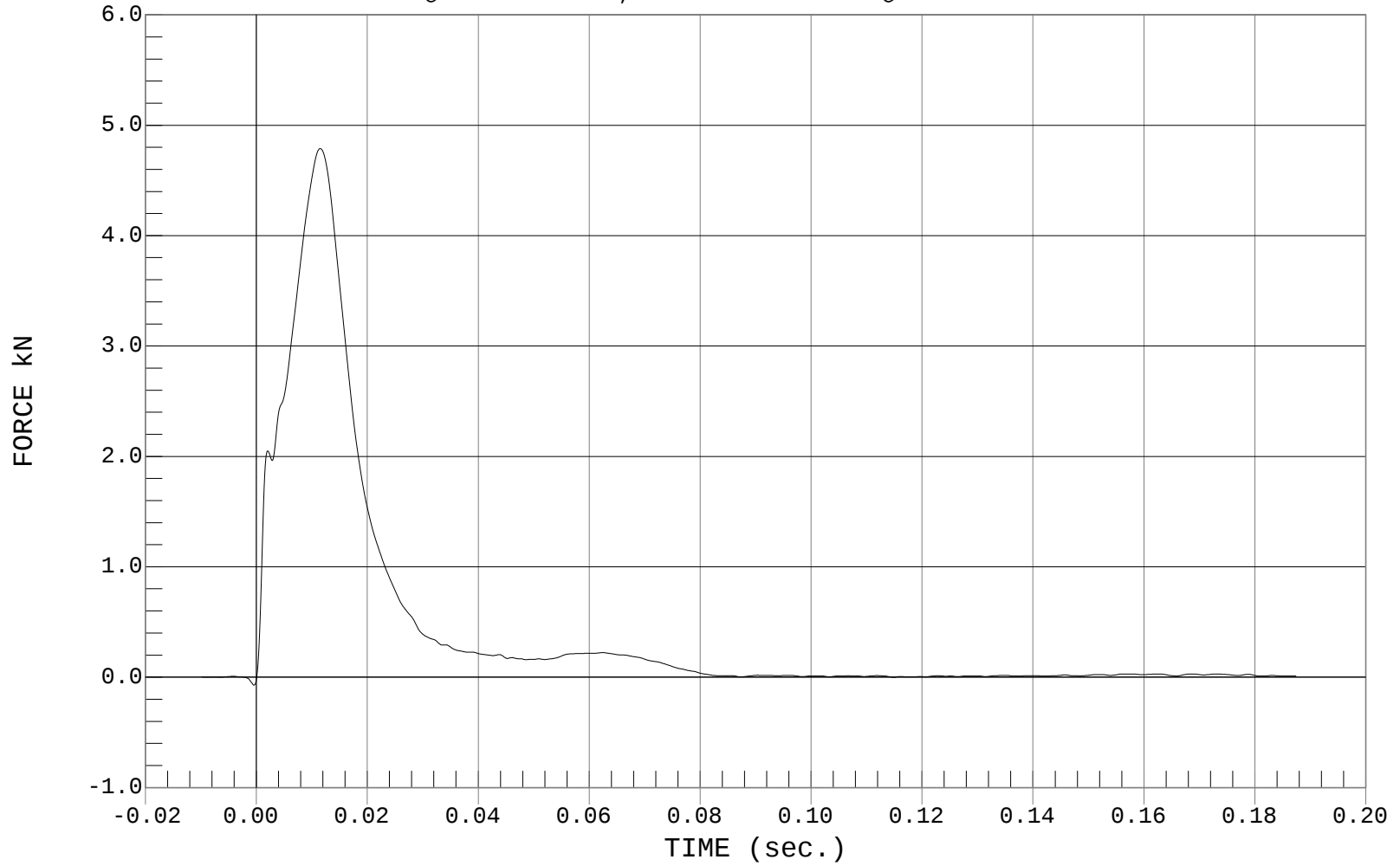
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 06-28-01
Speed: 13.18 FT/SEC, 4.02 M/SEC

— 1 FORCE, D01977FT.F01

Ymin = -.07 kN @ -0.0004 sec., Ymax = 4.79 kN @ 0.0115 sec.





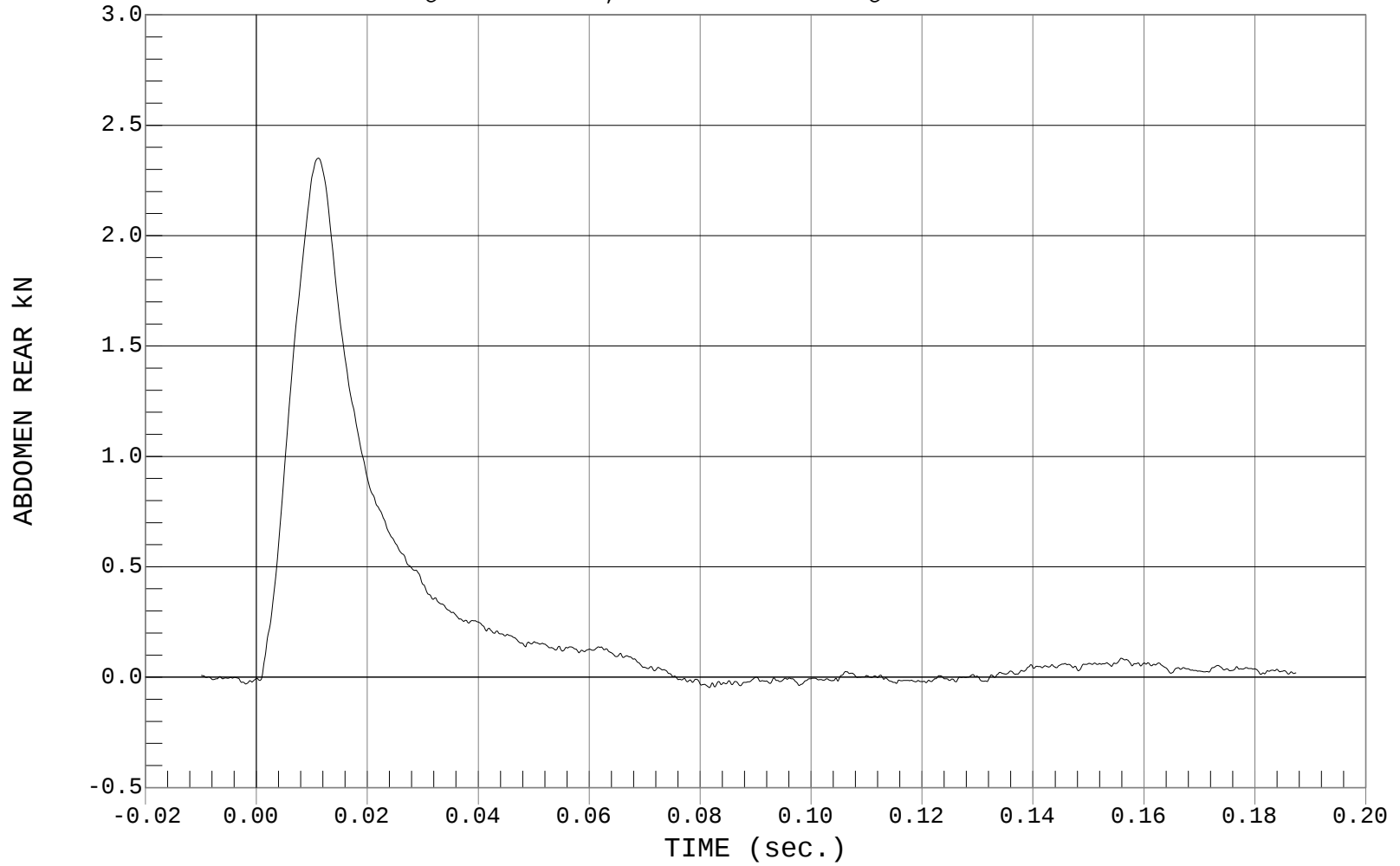
ABDOMEN FORCE

Test Desc.: Dummy Calibration - Abdomen Impact
Component: Dummy #009

Test Date: 06-28-01
Speed: 13.18 FT/SEC, 4.02 M/SEC

— 1 ABDOMEN REAR, D01977FT.F02

Ymin = -.05 kN @ 0.0817 sec., Ymax = 2.35 kN @ 0.0112 sec.



MGA RESEARCH CORPORATION
LUMBAR SPINE TEST
EUROSID 2 DUMMY

Date: 6/29/01

Dummy Serial Number: 009

Test Number: D01978

TEST PARAMETER		SPECIFICATION	TEST RESULTS
Temperature (°C)		18 – 22	20.5
Relative Humidity (%)		10 – 70	59
Pendulum Speed		5.95 – 6.15	6.09
Pendulum Deceleration	10 msec	ˆ2.46 - ˆ1.59 m/sec	-1.92
	20 msec	ˆ5.25 - ˆ4.07 m/sec	-4.48
	25 msec	ˆ6.64 - ˆ5.30m/sec	-5.55
	30 msec	≥ -6.5 m/sec	-6.1
Maximum Flexion Angle		45.0 – 55.0 deg	50.3
Time of Max. Flexion Angle		39.0 – 53.0 ms	44.3
Maximum Angle Theta (A)		31.0 – 35.0 deg	31.7
Time of Max. Theta (A)		44.0 – 52.0 ms	44.2
Maximum Angle Theta (B)		27.43– 29.93 deg	27.48
Time of Max. Theta (B)		44.0 – 52.0 ms	44.5

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____

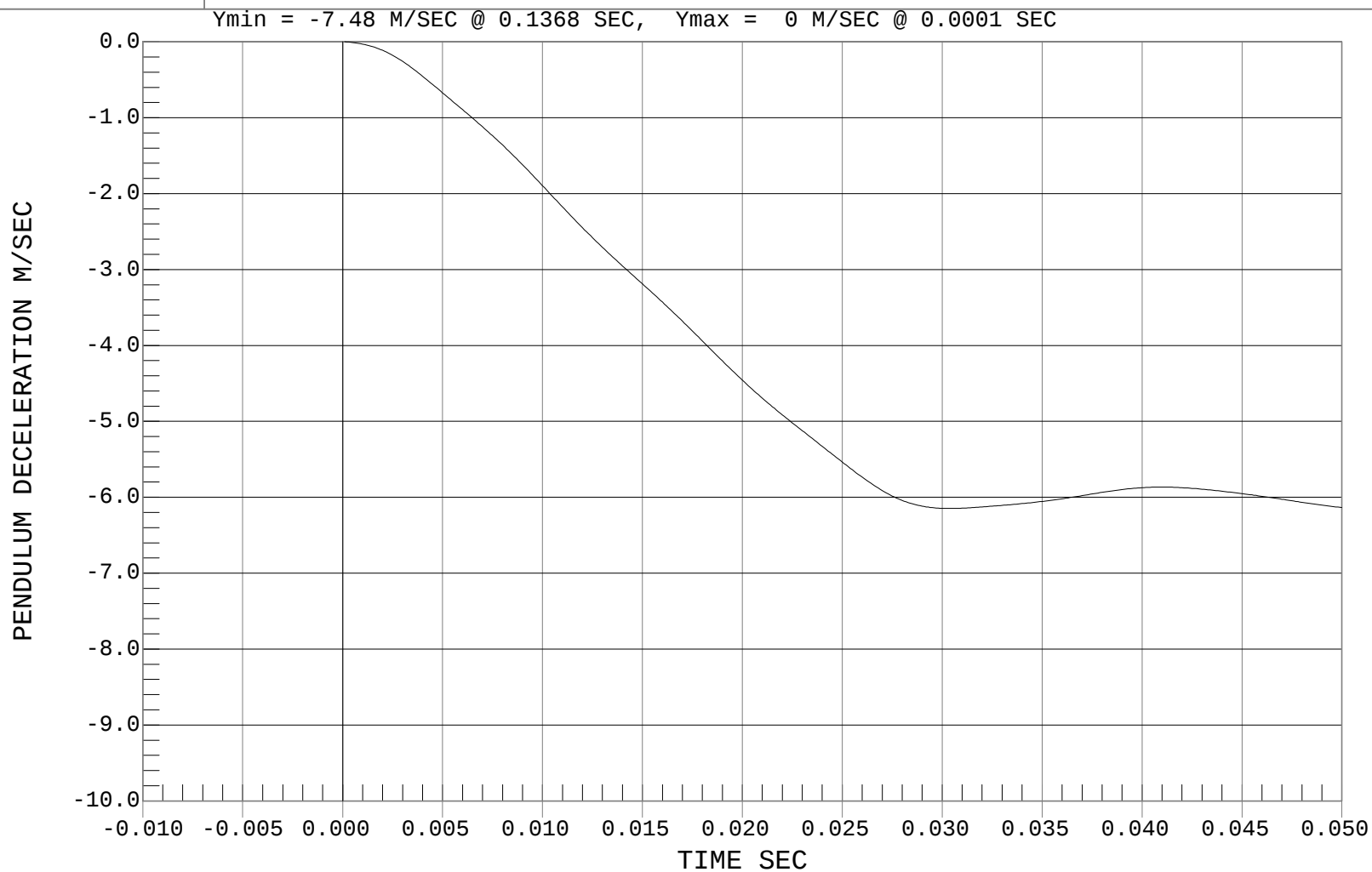


PENDULUM DECELERATION

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-29-01
Speed: 19.99 FT/SEC, 6.09 M/SEC

— 1 PENDULUM DECELERATION, D01978AI.V04





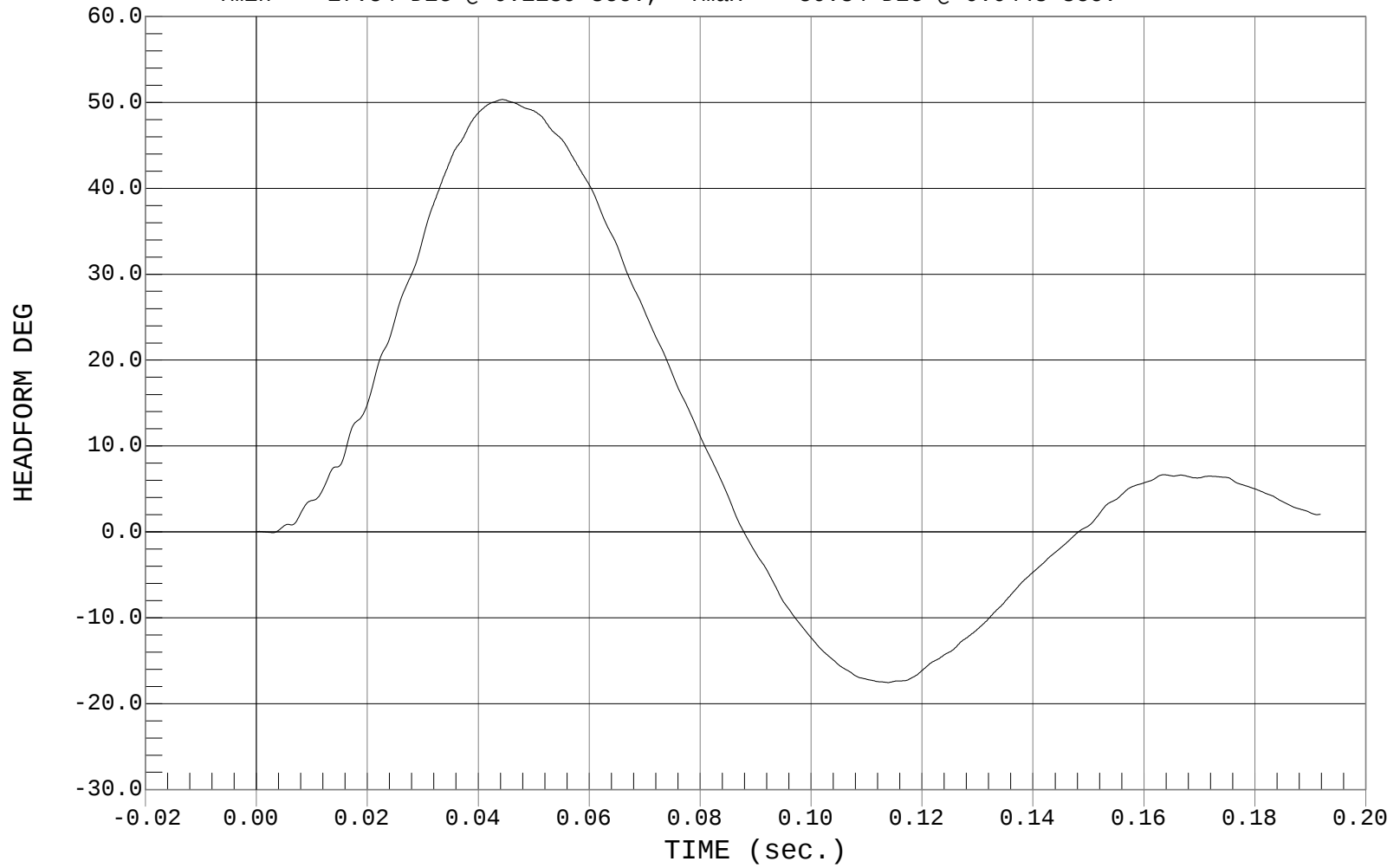
FLEXION ANGLE

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-29-01
Speed: 19.99 FT/SEC, 6.09 M/SEC

— 1 HEADFORM, D01978DT.D08

Ymin = -17.54 DEG @ 0.1139 sec., Ymax = 50.34 DEG @ 0.0443 sec.





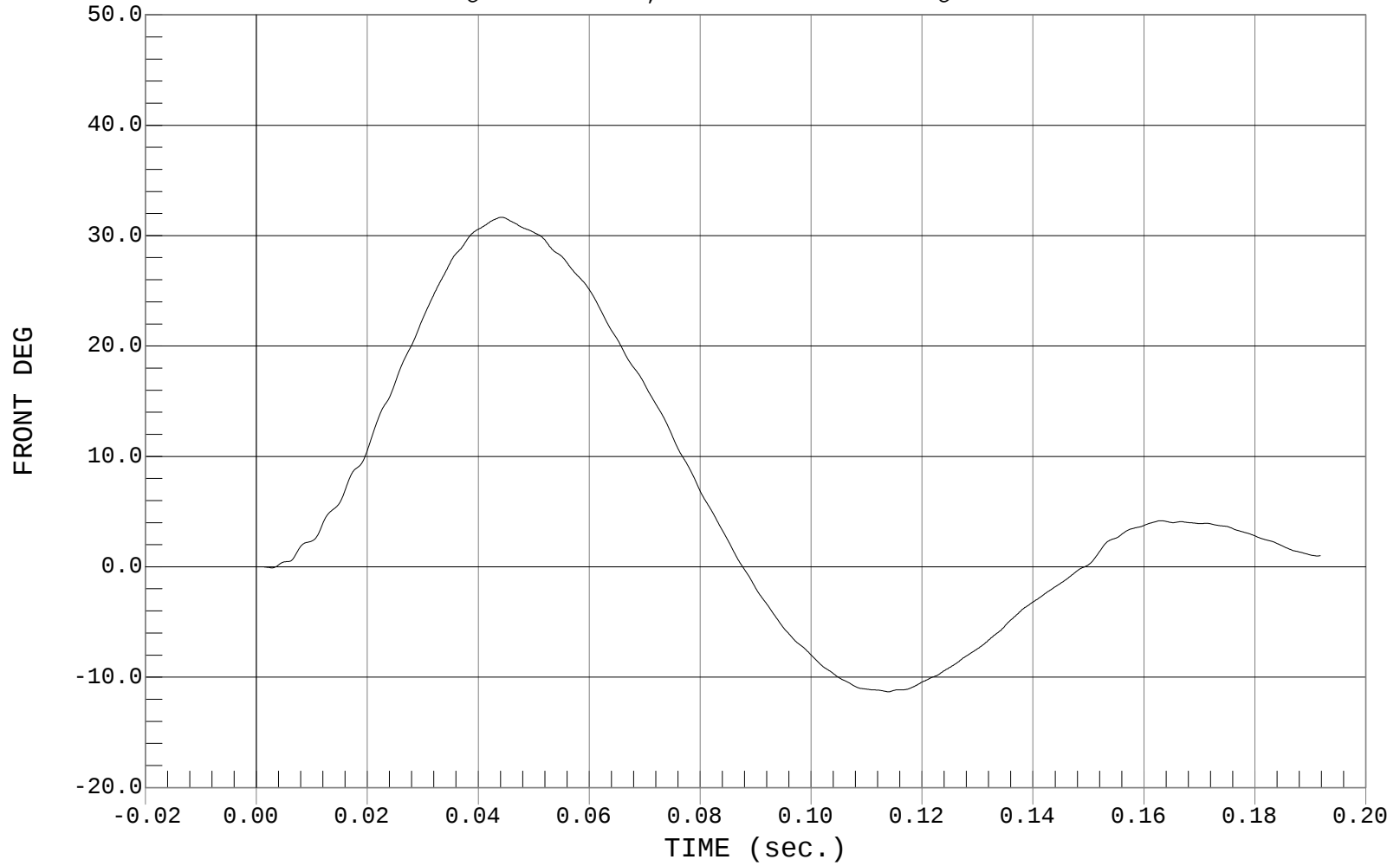
THETA A

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-29-01
Speed: 19.99 FT/SEC, 6.09 M/SEC

— 1 FRONT, D01978DT.D05

Ymin = -11.33 DEG @ 0.1140 sec., Ymax = 31.67 DEG @ 0.0442 sec.





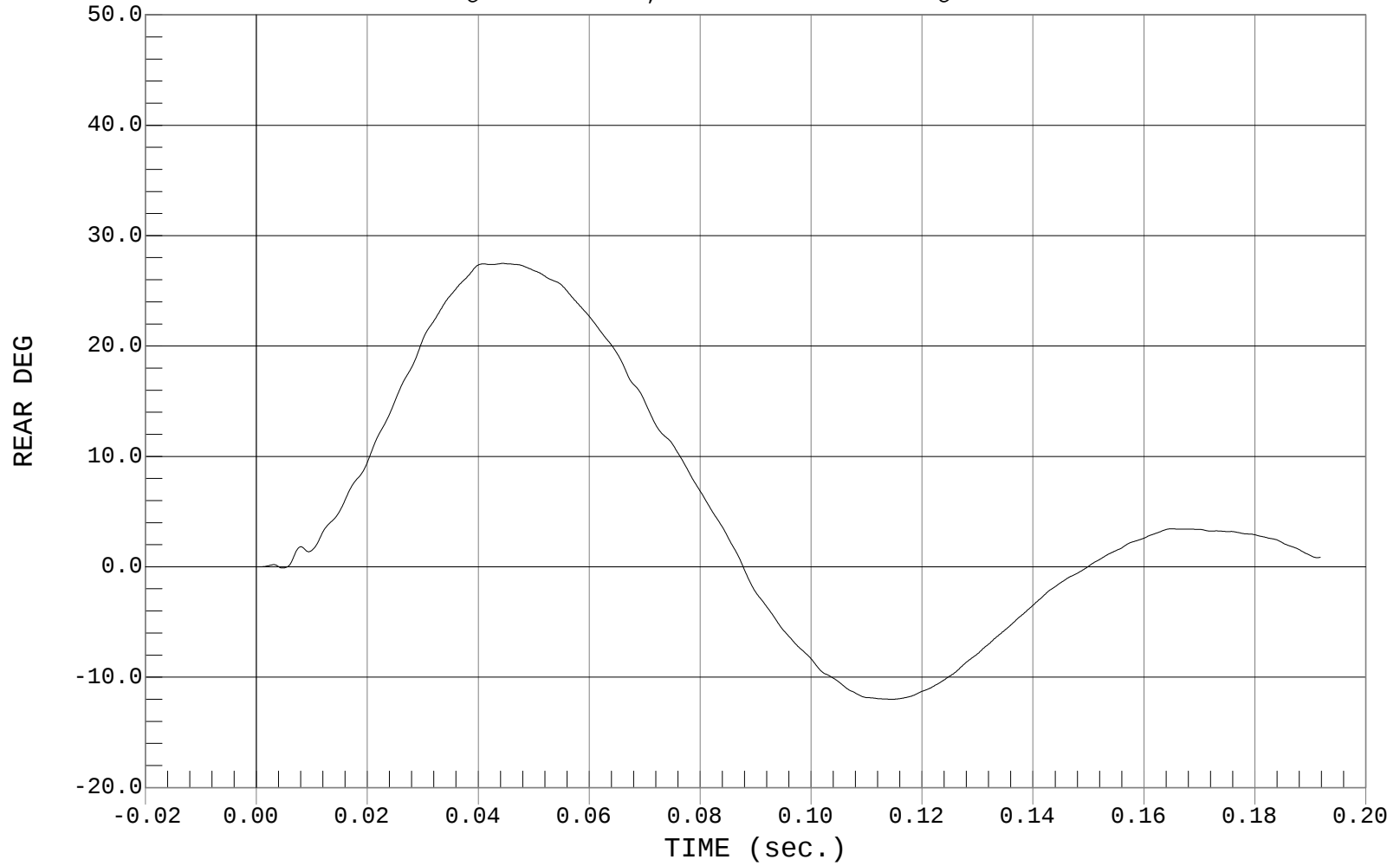
THETA B

Test Desc.: Dummy Calibration - Lumbar Flexion
Component: Dummy #009

Test Date: 06-29-01
Speed: 19.99 FT/SEC, 6.09 M/SEC

— 1 REAR, D01978DT.D06

Ymin = -12.01 DEG @ 0.1147 sec., Ymax = 27.48 DEG @ 0.0445 sec.



MGA RESEARCH CORPORATION
PELVIS TEST
EUROSID 2 DUMMY

Date: 6/28/01

Dummy Serial Number: 009

Test Number: D01979

TEST PARAMETER	SPECIFICATION	TEST RESULTS
Temperature (°C)	18 – 22	21.3
Relative Humidity (%)	10 – 70	51
Pendulum Speed	6.20 – 6.30 m/s	6.27
Maximum Impactor Force	9.80 – 12.20 kN	10.78
Time of Max. Impactor Force	9.50 – 12.50 ms	11.40
Maximum Pubic Force	2.65 – 3.35 kN	3.32
Time of Max. Pubic Force	10.00 – 13.00 ms	11.80

TEST MEETS SPECIFICATIONS

Technician: _____

Approved By: _____



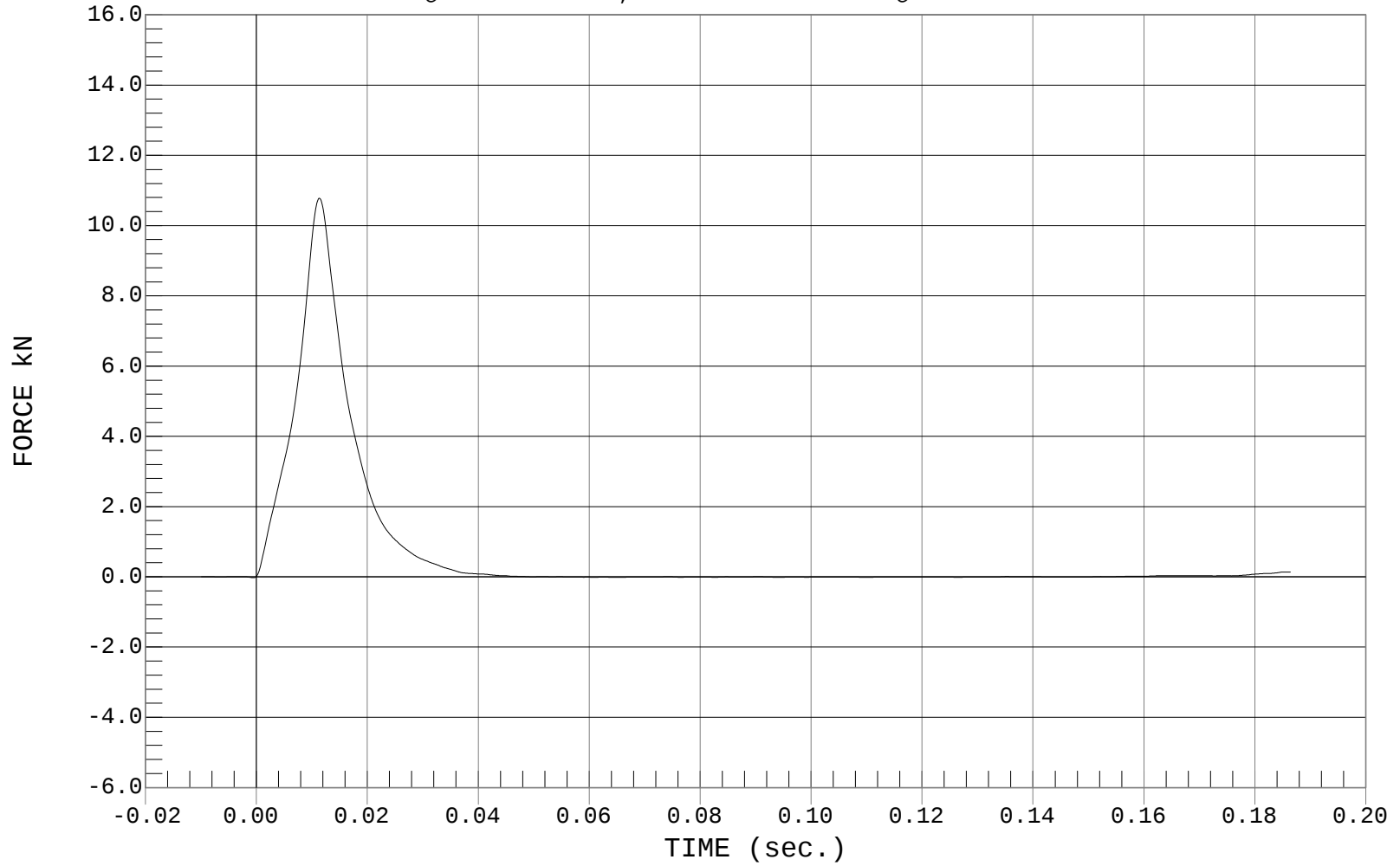
IMPACTOR FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 06-28-01
Speed: 20.56 FT/SEC, 6.27 M/SEC

— 1 FORCE, D01979FT.F01

Ymin = -.03 kN @ -0.0006 sec., Ymax = 10.78 kN @ 0.0114 sec.





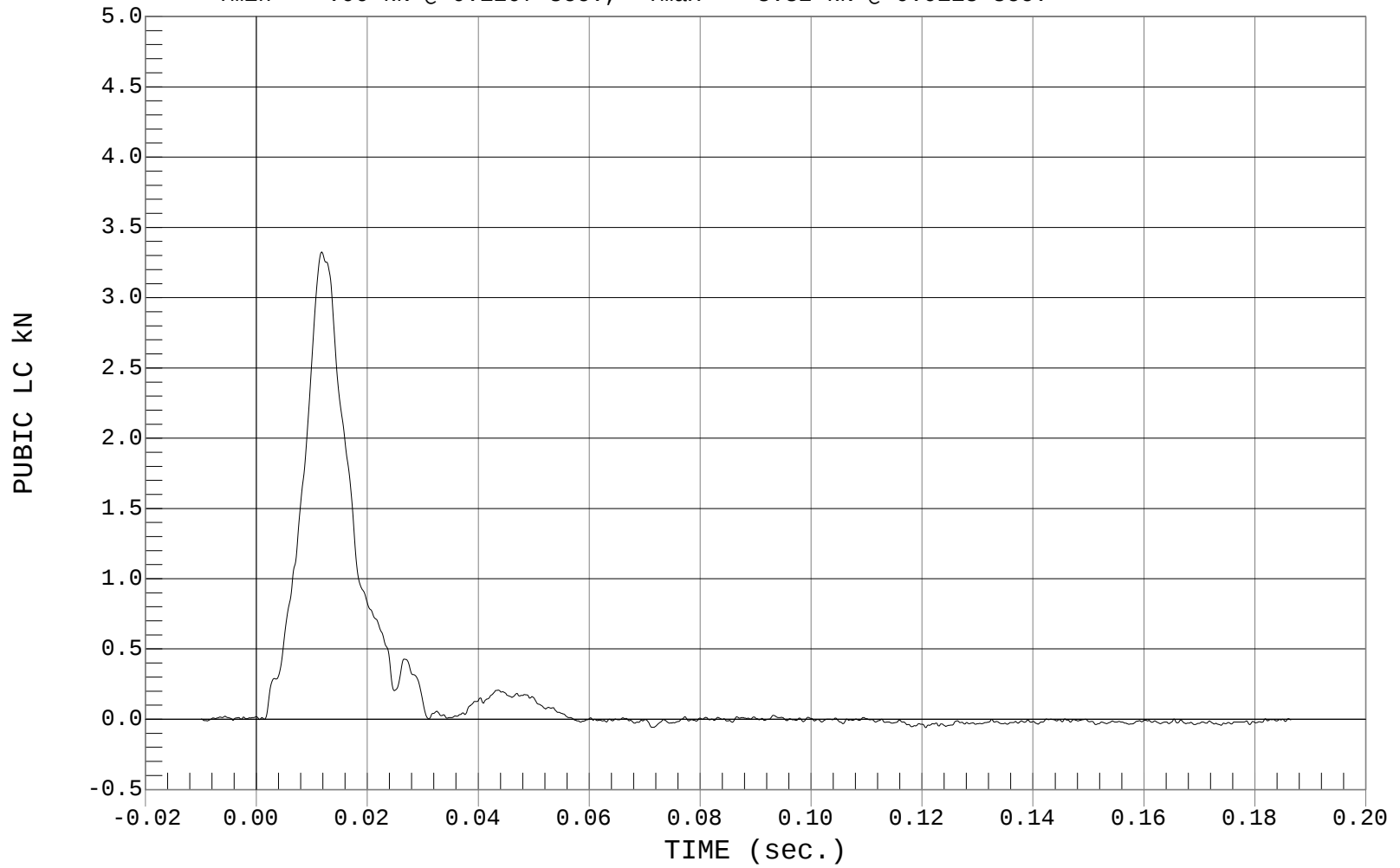
PUBIC FORCE

Test Desc.: Dummy Calibration - Pelvis Impact
Component: Dummy #009

Test Date: 06-28-01
Speed: 20.56 FT/SEC, 6.27 M/SEC

— 1 PUBIC LC, D01979FT.F02

Ymin = -.06 kN @ 0.1207 sec., Ymax = 3.32 kN @ 0.0118 sec.



APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

DUMMY AND VEHICLE CALIBRATION DATA

	INSTRUMENTS FOR LEFT FRONT DUMMY NO. 009		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X Accelerometer	J11014	Endevco	3/28/01
Head Y Accelerometer	J11625	Endevco	3/28/01
Head Z Accelerometer	J10730	Endevco	3/28/01
Upper Neck Load Cell	105	FTSS	4/30/01
Lower Neck Load Cell	110	FTSS	5/4/01
Shoulder Force Load Cell	119	FTSS	4/24/01
Upper Spine X Accelerometer	J13941	Endevco	3/20/01
Upper Spine Y Accelerometer	J13984	Endevco	3/20/01
Upper Spine Z Accelerometer	J13927	Endevco	3/28/01
Upper Rib Y Accelerometer	AJ9Y3	Endevco	3/28/01
Mid Rib Y Accelerometer	ANAM1	Endevco	3/28/01
Lower Rib Y Accelerometer	ANAN7	Endevco	3/28/01
Upper Rib Displacement	009	Honeywell	5/22/01
Mid Rib Displacement	009	Honeywell	5/22/01
Lower Rib Displacement	009	Honeywell	5/22/01
Lower Spine X Accelerometer	ALFP1	Endevco	5/30/01
Lower Spine Y Accelerometer	AP179	Endevco	5/30/01
Lower Spine Z Accelerometer	AHTY4	Endevco	5/30/01
Torso Load Cell	122	FTSS	4/12/01
T-12 Load Cell	102	FTSS	3/27/01
Front Abdomen Load Cell	122	FTSS	4/26/01
Mid Abdomen Load Cell	123	FTSS	4/26/01
Rear Abdomen Load Cell	124	FTSS	4/26/01
Pubic Symphysis Load Cell	115	Denton	3/29/01
Pelvis X Accelerometer	J13772	Endevco	2/21/01
Pelvis Y Accelerometer	J14008	Endevco	2/21/01
Pelvis Z Accelerometer	J14028	Endevco	2/21/01
Right Femur Load Cell	135	FTSS	4/18/01
Left Femur Load Cell	136	FTSS	4/19/01
Lumbar Load Cell	104	FTSS	4/24/01

DUMMY AND VEHICLE CALIBRATION DATA

	INSTRUMENTS FOR LEFT REAR DUMMY NO. 025		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	ALB87	Endevco	6/1/01
Head Y	AHRP5	Endevco	6/1/01
Head Z	AJ9T6	Endevco	6/1/01
Upper Neck Load Cell	233	Denton	4/17/01
Lower Neck Load Cell	214	Denton	4/17/01
Chest X	J13650	Endevco	3/22/01
Chest Y	J14007	Endevco	3/22/01
Chest Z	J13424	Endevco	3/22/01
Pelvis X	AH0A2	Endevco	5/31/01
Pelvis Y	AGMT2	Endevco	5/31/01
Pelvis Z	AJ837	Endevco	5/31/01

	INSTRUMENTS FOR RIGHT REAR DUMMY NO. 144		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Head X	AMTL6	Endevco	6/14/01
Head Y	ALC37	Endevco	6/14/01
Head Z	AMTG3	Endevco	6/14/01
Upper Neck Load Cell	274	FTSS	1/4/01
Lower Neck Load Cell	139	FTSS	11/28/00
Chest X	J20965	Endevco	6/14/01
Chest Y	J22055	Endevco	6/14/01
Chest Z	J22107	Endevco	6/14/01
Pelvis X	J13990	Endevco	6/14/01
Pelvis Y	J13631	Endevco	6/14/01
Pelvis Z	J13930	Endevco	6/14/01

VEHICLE INSTRUMENT CALIBRATION

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Mid A-Post Y	E03-H07	Entran	6/6/01
Left Lower A-Post Y	F04-N12	Entran	6/22/01
Left Upper B-Post Y	E03-H16	Entran	6/7/01
Left Mid B-Post Y	I18-G02	Entran	2/15/01
Left Lower B-Post Y	D11-F09	Entran	5/31/01
Rear Floorpan Above Axle X	G13-F18	Entran	4/4/01
Rear Floorpan Above Axle Y	G13-F16	Entran	4/4/01
Rear Floorpan Above Axle Z	G13-F03	Entran	4/4/01
Driver Seat Track Y	F04-N10	Entran	6/22/01
Driver Left Seat Frame	E03-H13	Entran	6/6/01
Driver Right Seat Frame	D11-F03	Entran	5/30/01
Right Side Sill at Front Seat X	F04-N14	Entran	6/22/01
Right Side Sill at Front Seat Y	F04-N08	Entran	6/22/01
Right Side Sill at Front Seat Z	F04-N06	Entran	6/22/01
Right Side Sill at Rear Seat X	D05-R25	Entran	2/7/01
Right Side Sill at Rear Seat Y	D06-A03	Entran	2/7/01
Right Side Sill at Rear Seat Z	J10-E18	Entran	2/15/01
Left Side Sill at Front Seat Y	I25-F11	Entran	6/19/01
Left Side Sill at Rear Seat Y	D05-R16	Entran	2/7/01
Vehicle CG X	D11-F14	Entran	5/30/01
Vehicle CG Y	E03-H09	Entran	6/6/01
Vehicle CG Z	G13-F02	Entran	2/7/01
Left Front Door @ Mid Rib Y	D11-F12	Entran	5/30/01
Left Front Door @ Pelvis Y	F04-N04	Entran	6/22/01
Left Front Door @ Knee Y	F04-N11	Entran	6/22/01
Left Front Door @ End of Arm Y	F04-N03	Entran	6/22/01

Note: All Endevco accelerometers are Model No. 7264-2000

All Entran accelerometers are Model No. EGE-72

VEHICLE INSTRUMENT CALIBRATION (cont.)

	VEHICLE ACCELEROMETERS		
	SERIAL NO.	MANUFACTURER	CALIBRATION DATE
Left Rear Door @ Mid Rib Y	F04-N15	Entran	6/25/01
Left Rear Door @ Pelvis Y	F04-N17	Entran	6/25/01
Left Rear Door @ Knee Y	F04-N16	Entran	6/25/01
Left Rear Door @ Child Seat Y	F04-N09	Entran	6/22/01
Lower Center Radiator Support X	K16-X08	Entran	3/21/01
Lower Center Radiator Support Y	J07-X16	Entran	3/21/01
Lower Center Radiator Support Z	D11-F16	Entran	5/30/01

Note: All Endevco accelerometers are Model No. 7264-2000

All Entran accelerometers are Model No. EGE-72

APPENDIX E
PROCEDURE USED FOR ES-2 POSITIONING

1. GENERAL

- 1.1 The dummy to be used for the following installation procedure is described in Annex 6 to this regulation.
- 1.2 Adjust the knee joints so that they just support the leg when it is extended horizontally (1 to 2 g).
- 1.3 Clothe the dummy in form fitting cotton stretch mid-calf length pants. Each foot is equipped with a shoe.

2. INSTALLATION

- 2.1 Place the dummy in the outboard front seat of the impact side as described in the test specifications.
- 2.2 The mid-sagittal plane of the dummy shall coincide with the centerplane of the occupant (as determined according to Annex 3, paragraph 2.8) with a tolerance of 2°.
- 2.3 The pelvis of the dummy shall be positioned according to the following:
 - 2.3.1 The pelvis pitch angle shall be 20.0° +/- 2.5°.
 - 2.3.2 A line passing through the dummy H-points shall pass through an imaginary circle in the mid-sagittal plane of the dummy. This circle has a radius of 10 mm and is located 20 mm horizontally forward and 5 mm vertically above the reference H-point, determined by the 3D H-point machine.
- 2.4 The upper torso of the dummy shall be positioned according to the following:
 - 2.4.1 The upper torso shall be bent forward and then laid back against the seat back. The shoulder of the dummy shall be set fully rearward.
 - 2.4.2 The torso reference line pitch angle shall be 25.0° +/- 2.5°. The torso reference line is defined as the thoracic spine center line.
- 2.5 The arms shall be positioned in such as way that the angle between the projection of the arm centerline on the mid-sagittal plane of the dummy and the torso reference line is 40° +/- 5°.

- 2.6 For the driver's seating position, without inducing pelvis or torso movement, place the right foot of the dummy on the undepressed accelerator pedal with the heel resting as far forward as possible on the floorpan. Set the left foot perpendicular to the lower leg with the heel resting on the floorpan in the same lateral line as the right heel. Set the knees of the dummy such that their outside surfaces are 150 ± 10 mm from the plane of symmetry of the dummy. If possible, within these constraints, place the thighs of the dummy in contact with the seat cushion.
- 2.7 For other seating positions, without inducing pelvis or torso movement, place the heels of the dummy as far forward as possible on the floorpan without compressing the seat cushion more than the compression due to the weight of the leg. Set the knees of the dummy such that their outside surfaces are 150 ± 10 mm from the plane of symmetry of the dummy.

APPENDIX F
ES-2 PEAK RESPONSES

ES-2 PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)								
	Class	Axis	Units	Maxima 6/27/01 ES-2		Maxima 6/29/01 SID/HILL		Maxima 7/03/01 ES-2	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Head	1000	X	G	111.6	59	-107.8	60	8.5	150
	1000	Y	G	* 501.6	59	729.8	60	32.8	58
	1000	Z	G	145.2	59	200.4	60	14.8	59
	1000	RES	G	532.1	59	759.5	60	36.3	58
Head Injury Criteria (HIC)				4728		9233	6128	130	
time 1 msec				58.6		59.9	59.8	45.8	
time 2 msec				59.6		60.9	61.0	76.6	
							Corrected Y Acc.		
Upper Neck Force	1000	X	N	-245	61	286	59	-192	79
	1000	Y	N	-1455	59	982	61	257	102
	1000	Z	N	-1616	62	-2566	61	582	58
	1000	RES	N	1743	59	2583	61	586	58
Upper Neck Moment	600	X	Nm	-49.4	62	89.2	62	-16.2	40
	600	Y	Nm	29.0	96	23.4	109	18.0	97
	600	Z	Nm	11.1	72	15.9	103	-21.1	174
	600	RES	Nm	51.1	62	89.6	62	26.6	169
Lower Neck Force	1000	X	N	-321	70			-238	70
	1000	Y	N	764	58			271	35
	1000	Z	N	-1646	63			618	59
	1000	RES	N	1708	63			624	59
Lower Neck Moment	600	X	Nm	74.4	59			-51.8	172
	600	Y	Nm	48.5	76			31	77
	600	Z	Nm	9.0	59			-20.2	170
	600	RES	Nm	76.9	59			57.2	169
Shoulder Force	1000	X	N	-644	37			634	35
	1000	Y	N	1344	38			480	27
	1000	Z	N	-909	43			-575	30

ES-2 PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)								
	Class	Axis	Units	Maxima 6/27/01		Maxima 6/29/01		Maxima 7/03/01	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Upper Spine	180	X	G	-12.0	62	-15.4	47	7.4	34
	180	Y	G	51.8	56	79.1	53	36.7	53
	180	Z	G	11.3	60	14.3	61	5.7	66
	180	RES	G	52.4	56	79.8	53	36.8	53
Lower Spine	180	X	G	11.7	68	-20.7	84	9.2	20
	180	Y	G	55.5	51	72.2	44	45.4	43
	180	Z	G	11.3	61	12.9	61	4.7	67
	180	RES	G	55.5	51	72.8	44	45.7	42
Upper Rib	180	Y	G	64.8	39	66.0	42	49.3	21
Mid Rib	180	Y	G	115.3	40			62.1	20
Lower Rib	180	Y	G	180.2	40	60.4	37.7	88.0	20

ES-2 PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)								
	Class	Axis	Units	Maxima 6/27/01		Maxima 6/29/01		Maxima 7/03/01	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Upper Rib Deflection	180	Y	mm	-45.1	57			-33.3	59
Mid Rib Deflection	180	Y	mm	-42.7	57	-42.3	106	-31.3	58
Lower Rib Deflection	180	Y	mm	-40.1	56			-31.5	56
Upper Rib VC	180	Y	msec	0.7	46			0.3	35
Mid Rib VC	180	Y	msec	0.6	45			0.2	68
Lower Rib VC	180	Y	msec	0.5	46			0.3	27
Torso Force	600	X	N	243	60			110	69
	600	Y	N	-294	42			279	49
Torso Moment	600	Y	Nm	-14.4	62			16.5	81
	600	Z	Nm	17.3	55			19.3	70
T12 Force	600	X	N	632	53			1820	50

	600	Y	N	1665	41			-968	62
T12 Moment	600	X	Nm	-155.4	41			-82.5	54
	600	Y	Nm	79.9	71			61.6	50
Abdomen Front Force	600	Y	N	205	41			109	60
Abdomen Mid Force	600	Y	N	709	41			566	43
Abdomen Rear Force	600	Y	N	881	51			801	43
Abdomen Summed Force	600	Y	N	1758	41			1450	43
Pubic Symphysis Force	600	Y	N	-1930	46			-2080	45

ES-2 PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)								
	Class	Axis	Units	Maxima 6/27/01		Maxima 6/29/01		Maxima 7/03/01	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Right Femur Force	600	X	N	275	125			428	59
	600	Y	N	-833	59			-969	61
	600	Z	N	697	77			623	71
	600	RES	N	891	59			1078	61
Right Femur Moment	600	X	Nm	-97.0	43			-102.1	44
	600	Y	Nm	-27.4	72			36.7	108
	600	Z	Nm	-46.2	66			-32.0	67
	600	RES	Nm	97.6	43			104.5	44
Left Femur Force	600	X	N	308	133			222	66
	600	Y	N	-1363	60			-2137	59
	600	Z	N	1247	52			1054	53
	600	RES	N	1769	54			2364	58
Left Femur Moment	600	X	Nm	-112.8	69			-100.2	71
	600	Y	Nm	42.8	113			29.3	68
	600	Z	Nm	-51.7	58			-34.9	55
	600	RES	Nm	114.2	69			104.6	71
Pelvis	1000	X	G	23.1	54	-11.0	79	20.9	53
	1000	Y	G	52.7	43	51.3	44	54.8	44
	1000	Z	G	9.5	63	11.9	63	6.8	41

ES-2 PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)								
	Class	Axis	Units	Maxima 6/27/01		Maxima 6/29/01		Maxima 7/03/01	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Upper Spine			G (fir)	45.3	57	80.2	55	36.1	54
Lower Spine			G (fir)	54.5	52	69.5	46	44.8	44
Upper Rib			G (fir)	62.3	42	65.1	42	38.8	31
Mid Rib			G (fir)	113.3	41			51.8	21
Lower Rib			G (fir)	128.9	41	60.8	38.8	61.9	21
Pelvis			G (fir)	50.6	44	49.6	46	52.6	46
TTI			G (fir)	92		67		53	
Impact Speed			kph	28.3		28.6		28.6	

CHILD PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)														
	Class	Axis	Units	Maxima 6/27 Left Rear/HIII 3 yr 201P		Maxima 6/27 Right Rear/HIII 6 yr 201P		Maxima 6/29 Left Rear/HII 6yr/bst. 201P		Maxima 6/29 Right Rear/HIII 6 yr 201P		Maxima 7/3 Left Rear/Q3 201P		Maxima 7/3 Right Rear HIII 3 yr 201P	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Head	1000	X	G	-10.2	108	7.1	107	-9.4	121	-4.9	116	-8.1	139	-9.3	122
	1000	Y	G	15.9	109	11.8	125	23.5	90	10.3	105	22.1	92	16.2	109
	1000	Z	G	28.5	101	14.3	109	12.6	92	12.7	113	11.4	111	12.1	109
	1000	RES	G	31.6	101	18.6	109	26.9	92	16	113	24.8	92	20.9	109
Head Injury Criteria (HIC)				42		43		44		29		38		48	
time 1 msec				91.0		104.4		86.5		100.6		84.9		99.3	
time 2 msec				127.0		140.4		122.5		136.6		120.9		135.3	
Upper Neck Force	1000	X	N	-306.8	99	-115.3	153	-176.7	110	-111.3	142	-175.8	140	-93.0	122
	1000	Y	N	463.5	100	-309.9	144	140.2	135	-202.9	115	125.9	90	342.6	131
	1000	Z	N	599.5	102	695.7	108	543.5	92	395.5	113	360.2	152	348.6	122
	1000	RES	N	682.4	102	711.6	108	543.5	92	446.2	113	387.5	133	486.6	122
Upper Neck Moment	600	X	m	46.9**	103	18.2	145	14.1	102	13.4	124	7.1	101	50.1	109
	600	Y	m	11.5	99	-7.0	122	-15.6	107	-8.5	110	4.4	119	12.9	158
	600	Z	m	-7.2	129	13.5	146	18.7	116	13.7	131	3.1	100	9.2	135
	600	RES	m	**NVD after 150 msec.		22.4	146	26.0	107	20.7	125	8.0	101	50.6	109

CHILD PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)														
	Class	Axis	Units	Maxima 6/27 Left Rear/HIII 3 yr 201P		Maxima 6/27 Rt Rear/HIII 6 yr 201P		Maxima 6/29 Left Rear/HII 6yr/bst. 201P		Maxima 7/3 Left Rear/Q3 201P		Maxima 7/3 Rt Rear HIII 3 yr 201P		Maxima 6/29 Rt Rear/HIII 6 yr 201P	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Lower Neck Force	1000	X	N	175.9	101	-88.1	188	No Load Cell Available		-57.2	183	-182.5	138	196.3	125
	1000	Y	N	275.6	103	-294.5	138			-152.5	109	299.2	87	282.2	106
	1000	Z	N	-536.9	101	736.0	110			436.6	114	314.5	133	243.2	106
	1000	RES	N	612.1	101	767.4	110			461.0	114	403.8	132	385.5	125
Lower Neck Moment	600	X	m	-13.3	109	66.1	140	No Load Cell Available		-14.7	113	24.9	91	49.8	115
	600	Y	m	-4.8	146	34.3	109			49.8	115	16.8	139	23.0	113
	600	Z	m	-8.8	125	-19.0	136			23.0	113	2.7	101	-14.7	113
	600	RES	m	15.0	113	71.4	138			56.7	113	25	91	56.7	113
Rib Deflection	180		mm									15.1	106		
Chest	180	X	G	-7.8	104	-3.9	143	5.1	73	-4.7	141	-8.4	95	-6.6	121
	180	Y	G	21.9	99	14.4	98	17.8	84	13.3	97	18.8	96	12.9	83
	180	Z	G	-6.8	99	6.7	140	6.6	153	4.9	118	3.5	137	4.8	126
	180	RES	G	22.5	99	14.9	98	17.9	84	13.4	97	19.2	76	13.0	83
Pelvis	1000	X	G	-6.0	102	-4.9	127	4.5	58	-4.4	83	-6.2	84	-5.7	141
	1000	Y	G	27.7	75	16.8	86	19.5	77	16.3	107	29.1	89	11.4	104
	1000	Z	G	-15.7	102	6.8	139	6.3	155	2.9	150	-4.3	75	3.9	116

CHILD PEAK RESPONSE COMPARISON TABLE

Location	Peak Values (G's)														
	Class	Axis	Units	Maxima 6/27 Left Rear/HIII 3 yr 201P		Maxima 6/27 Right Rear/HIII 6 yr 201P		Maxima 6/29 Left Rear/HII 6yr/bst. 201P		Maxima 7/3 Left Rear/Q3 201P		Maxima 7/3 Right Rear HIII 3 yr 201P		Maxima 6/29 Right Rear/HIII 6 yr 201P	
				Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)	Peak	Time (msec)
Head to Striker		X		76		141		228		372		106		80	
		Y		391		409		145		124		365		378	
		Z		184		207		358		122		205		188	
Chest to Door				366		461		372		382		371		379	